



August 2, 2021

***Submitted Via Email***

Ms. Kelly Poulos  
USEPA Region V  
77 W. Jackson Blvd.  
Mail Code SR-6J  
Chicago, IL 60604-3507  
[poulos.kelly@epa.gov](mailto:poulos.kelly@epa.gov)

Re: 2021 Monitoring Plan – Response to USEPA Letter dated July 13, 2021  
Verona Well Field Superfund Site (Site); Battle Creek, Michigan

Dear Ms. Poulos:

The Verona Well Field RD/RA Group (Group) and Progressive Engineering & Construction, Inc. (Progressive) have reviewed the USEPA's comments (letter dated July 13, 2021, copy attached) on the Group's proposed monitoring plan for 2021 per Table 9 of the *2020 Annual Monitoring Report* (dated February 18, 2021). USEPA consulted with the Michigan Department of Environment, Great Lakes, and Energy (EGLE) and S.S. Papadopoulos & Associates (SSPA) in its review. Agency comments and our responses are provided below.

### **VWFMP and GWMP**

The *Verona Well Field Management Plan* (VWFMP) was developed collaboratively by representatives of USEPA, EGLE, the City of Battle Creek, and the Group – collectively, the VWFMP Parties – to guide decision-making for this Site. The *Groundwater Monitoring Plan* (GWMP), i.e., Table 9 of the VWFMP, provided the locations and frequency for hydraulic and groundwater quality monitoring for the period of 2005-2010. Since 2010, the proposed GWMP for each subsequent year has been provided in the Group's *Annual Monitoring Report* (and separate correspondence as applicable).

During development of the original GWMP, the VWFMP Parties agreed that larger monitoring events would take place every five years (2005, 2010, etc.) to support USEPA's Five Year Reviews (FYRs) for this Site, and that monitoring in the in between FYR years would be less extensive. Table 1 (attached) shows the scope of hydraulic and groundwater quality monitoring completed annually for 2015 through 2020.

### **Comments and Responses**

USEPA has requested 7 additional locations for hydraulic monitoring and 34 additional locations for water quality monitoring in 2021. In general, the requests go beyond the monitoring principles in the VWFMP and past practice, but, where additional monitoring may provide data material to assessing the progress of remediating groundwater

contamination at the Site, the Group is and has always been willing to undertake such monitoring. The Group can see some justification for some of the requested additional monitoring, but does not see justification for others, as noted below.

- COMMENT 1: USEPA recommends updating Table 9 of the *Annual Monitoring Report* by including all wells from the "Master Well List" for the site and a summary of all wells in past years' monitoring programs.

*RESPONSE:* Table 2 (attached) is the updated Master Well List, and reflects status of all wells as of July 2021. This updated table can serve as the basis for future updates to the Groundwater Monitoring Plan (GWMP) – i.e., Table 9 of each *Annual Monitoring Report*.

- COMMENT 2: USEPA has requested hydraulic monitoring at 7 additional locations in 2021, as well as at any well sampled in 2021.

*RESPONSE:* The VWF Group will include the 7 additional locations requested in Table 1 of your letter (i.e., B-24, GMP-9S, PSRW-1A, V-29, W-1I, W-1S, T-10). In addition, the Group will collect water levels at all of the additional groundwater quality monitoring locations the Group agrees to perform below (if not already on the prescribed list) because that is good practice.

- COMMENTS 3 and 4: USEPA has requested groundwater quality monitoring at 34 additional locations in 2021, to provide a comprehensive basis for delineating the current extent of contamination exceeding cleanup objectives in support of the upcoming FYR.

*RESPONSE:* The VWF Group will include 17 of the 34 additional locations requested in Table 2 of your letter. Our rationale follows:

- CH-142I is already included on Table 9 for sampling in 2021, if it can be found. It was on the 2020 sampling list, but could not be located.
- The Group agrees the following 17 wells will provide material information about trends in achieving Site cleanup objectives (CUOs): CH-107D, CH-145I, GMA-2D, V-22, AS-11, AS-15, AS-16, B-1, B-8I, CH-107I, CH-140I, GMP-9S, V-21, W-2S, W-4S, W-5S, and W-6D. These wells were sampled in 2015 and have not been sampled more than twice since. Additional groundwater quality data will provide enough data to supplement general trends.
- The Group does not believe groundwater quality sampling at the following locations will add materially to the understanding of achievement of Site CUOs for the reasons stated below:
  - 1) B-24, CH-146I, GMBW-8, V-24, V-25, and DEQ-5A: These wells were sampled in 2015 and at least 3 times since then. They will be sampled several times as part of annual sampling events after 2021. The existing

and future data are adequate to evaluate groundwater quality trends now and for the 2021 and 2026 FYRs.

- 2) W-3S: This well was abandoned in December 2016.
- 3) DOMW-10D, -14, -18 & -4: These wells are at the Davis Oil closed Michigan UST site overseen by EGLE. The Group is not responsible for this source area. Sampling at Davis Oil in the past has been associated with evaluating source control at the Raymond Road source area for which the Group is not responsible.
- 4) DEQ-3C, GMPD-2D, -3D, & -5D, and DEQ-1B: The cis-1,2-dichloroethene (cDCE) observed in these well is far below the 70 micrograms per liter (ug/L) cDCE CUO. All of these wells have had no or only very low level or estimated detections of cDCE. All were sampled in August 2020, and each result was no detection (<1 ug/L target detection limit). Sampling these locations that have been "clean" for many years will add no information of material value. A cycle of "every other year" monitoring is appropriate for these wells, as proposed in the 2020 Annual Monitoring Report, and consistent with the original GWMP (for 2005-2010) in the VWFMP which had GMP-2D, -3D and -5D sampled every other year, DEQ-1B sampled every three years, and DEQ-3C sampled every five years.

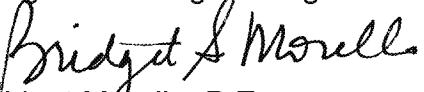
The table below summarizes our evaluation of USEPA's request for additional sampling locations based on whether the proposed wells will materially aid in the evaluation of the progress of cleanup at this Site when considered in the context of the prior 35+ years of groundwater quality data.

Category	Locations	# of Locations
<b>SAMPLING JUSTIFIED</b>		
Sampled in 2015 and no more than twice since	CH-107D, CH-145I, GMA-2D, V-22, AS-11, AS-15, AS-16, B-1, B-8I, CH-107I, CH-140I, GMP-9S, V-21, W-2S, W-4S, W-5S, and W-6D	17
<b>SAMPLING NOT JUSTIFIED</b>		
Already on Table 9 "To Sample" List	CH-142I	1
Sampled in 2015 and at least three times since	B-24, CH-146I, GMBW-8, V-24, V-25, and DEQ-5A	6
Abandoned	W-3S	1
Davis Oil site wells are not Group's responsibility	DOMW-10D, -14, -18 and -4	4
cDCE not of concern, well below CUO	DEQ-3C, GMP-2D, GMP-3D, GMP-5D, and DEQ-1B	5

Table 3 (attached) provides the updated GWMP for 2021. Please provide written concurrence with Table 3 by August 10, 2021. The annual monitoring event will begin on August 23, 2021 (the full round of hydraulic monitoring will be performed that day, and sampling will take place the remainder of that week).

If you have questions, please contact me at (813) 930-0669 ext. 205.

Sincerely,  
Progressive Engineering & Construction, Inc.

  
Bridget Morello, P.E.  
Principal Engineer

Attachments

- Copy of USEPA comment letter dated July 13, 2021
- Table 1 – GWMP 2015-2020 (and originally proposed for 2021)
- Table 2 – Master Summary of Well Construction Details (updated as of July 2021)
- Table 3 – Updated GWMP for 2021

cc:

Craig Hupp, Site Administrator, R.C. Hupp Law PLLC  
Verona Well Field Group Technical Committee  
Beth Mead-O'Brien, EGLE



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
77 WEST JACKSON BOULEVARD  
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF: SR-6J

July 13, 2021

Ms. Bridget S. Morello, P.E.  
Progressive Engineering & Construction, Inc.  
12492 N. 56<sup>th</sup> Street  
Tampa, FL 33617

RE: 2021 Proposed Groundwater Monitoring Plan Comments  
Verona Well Field Superfund Site  
Battle Creek, Michigan

Dear Ms. Morello:

This letter provides U. S. Environmental Protection Agency's (EPA's) comments on Progressive Engineering & Construction, Inc.'s (Progressive's) proposed 2021 annual monitoring plan for the Verona Well Field Superfund Site in Battle Creek, Michigan, provided in Table 9 of the 2020 Annual Monitoring Report (AMR). EPA has consulted with the Michigan Department of Environment, Great Lakes, and Energy (EGLE) and S.S. Papadopoulos & Associated (SSPA) in its review of the proposed sampling plan and provides the following comments:

1. To facilitate the review of sampling program modifications, EPA recommends updating Table 9 of the AMR by including all wells from the "Master Well List" for the site and a summary of all wells in the past years' monitoring programs.
2. All groundwater sampling locations should be included in the hydraulic monitoring program. Additionally, the following wells are included in the hydraulic monitoring program per the Verona Well Field Management Plan (VWFMP) and should remain part of the 2021 monitoring program: B-24, GMP9S, PSRW-1A, and V29. EPA recommends including the wells listed in Table 1 in the hydraulic monitoring program this year.

Table 1: Wells to be added to the water level monitoring program

Well	
B-24	GMP9S
PSRW-1A	V29
T10	W1I
W1S	
<i>Total wells to be added to hydraulic monitoring program: 7</i>	

3. Table 2 contains wells that were part of the extended sampling program in 2015 but were not sampled in 2020. Ten of these wells are also part of the VWFMP and should remain a part of the 2021 sampling program: B-24, CH-107D, CH-140I, CH-145I, CH-146I, GMA-2D, GMBW-8, V-22, V-24, V-25. EPA recommends that the wells in Table 2 be included in the 2021 sampling program to provide a comprehensive basis for delineating the current extent of contamination exceeding cleanup objectives in support of the upcoming Five-Year Review.
4. Five wells proposed for every other year sampling in Table 9 of the AMR have had variability in recent *cis*-1,2-dichloroethene (*cis*-1,2-DCE) concentrations. Four of these wells have also had either three or four years between recent sampling events. EPA recommends that these wells be sampled during the 2021 sampling event instead of sampling them every other year. These wells are included in Table 2.
  - DEQ-3C: Variability in *cis*-1,2-DCE concentrations in the last five measurements.
  - GMP-2D: Variability in the *cis*-1,2-DCE concentration in the last two measurements and four years between the two most recent sampling events.
  - GMP-3D: Variability in the *cis*-1,2-DCE concentration in the last two measurements and four years between the two most recent sampling events.
  - GMP-5D: Variability in the *cis*-1,2-DCE concentration in the last two measurements and four years between the two most recent sampling events.
  - DEQ-1B: Variability in the *cis*-1,2-DCE concentration in the last two measurements and three years separating the two most recent sampling events.

Table 2: Wells to be added to the groundwater quality monitoring program

<b>Well</b>	<b>Approximate Well Location</b>
B-24	Annex
CH-107D	Annex
CH-145I	Paint Shop
CH-146I	Paint Shop
GMA-2D	Annex
GMBW-8	Southern Blocking Well (SBW) Vicinity
V-22	Northern Blocking Well (NBW) Vicinity
V-24	NBW Vicinity
V-25	NBW Vicinity
AS-11	Annex
AS-15	Annex
AS-16	Annex
B-1	Annex
B-8I	Annex
CH-107I	Annex
CH-140I	Paint Shop
CH-142I	Paint Shop
DEQ-5A	SBW Vicinity
DOMW-10D	Davis Oil
DOMW-14	Davis Oil
DOMW-18	Davis Oil
DOMW-4	Davis Oil
GMP-9S	Annex
V-21	NBW Vicinity
W-2S	Between NBW and SBW
W-3S	Between NBW and SBW
W-4S	SBW Vicinity
W-5S	West/Northwest of Annex
W-6D	Between TSRR and SBW
DEQ-3C	SBW Vicinity
GMP-2D	Between NBW and SBW
GMP-3D	Between NBW and SBW
GMP-5D	Between NBW and SBW
DEQ-1B	NBW Vicinity
<b>Total wells to be added to groundwater quality monitoring sampling: 34</b>	

In total, EPA requests that an additional 7 wells be measured for water levels and an additional 34 wells be monitored for water quality, in addition to the initially proposed wells.

A second letter containing EPA's comments on Progressive's 2020 Annual Monitoring Report is forthcoming. If you have any questions or concerns regarding this letter, please contact me by phone at 312-886-6806 or by email at [poulos.kelly@epa.gov](mailto:poulos.kelly@epa.gov).

Sincerely,

7/13/2021



Kelly Poulos  
Remedial Project Manager, U.S. EPA  
Signed by: KELLY POULOS

cc (via email):

Hala Kuss, EPA  
David Wilson, EPA  
Beth Mead-O'Brien, EGLE  
Barb Vetort, EGLE  
Dominique Sorel, SSPA  
R. Craig Hupp, R.C. Hupp Law PLLC  
Tony Butcher, Progressive  
Bill Davidson, Barr Engineering Co.  
Kurt Tribbett, City of Battle Creek  
Perry Hart, City of Battle Creek  
Robert Koehn, City of Battle Creek  
Matthew Hall, Consumers Energy

**TABLE 1. GWMP SUMMARY 2015-2020 (AND ORIGINALLY PROPOSED FOR 2021)**  
Verona Well Field Superfund Site

TABLE 1. GWMP SUMMARY 2015-2020 (AND ORIGINALLY PROPOSED FOR 2021)  
Verona Well Field Superfund Site

Page 2

Well	General Well Status as of July 2021	Approximate Well Location	General Well Depth	Hydraulic (Water Level) Monitoring							Groundwater Quality Monitoring						
				Actual 2015	Actual 2016	Actual 2017	Actual 2018	Actual 2019	Actual 2020	Originally Proposed 2021	Actual 2015	Actual 2016	Actual 2017	Actual 2018	Actual 2019	Actual 2020	Originally Proposed 2021
T-15	Abandoned	Far UG Annex	Shallow														
B-17I	Exists	TSRR	Intermed.														
B-17S	Exists	TSRR	Shallow														
B-18I	Exists	TSRR	Intermed.	EGLE	EGLE	EGLE	EGLE	EGLE	EGLE		EGLE						
B-18(D)	Abandoned	TSRR	Deep														
B-18S	Exists	TSRR	Shallow	EGLE	EGLE	EGLE	EGLE	EGLE	EGLE		EGLE						
B-19	Abandoned	TSRR	Shallow														
B-20	Abandoned	TSRR	Shallow														
B-21	Abandoned	TSRR	Shallow														
B-19S	Exists	TSRR	Shallow	EGLE	EGLE	EGLE	EGLE	EGLE	EGLE		EGLE						
B-20R	Exists	TSRR	Shallow	EGLE	EGLE	EGLE	EGLE	EGLE	EGLE		EGLE						
B-21R	Exists	TSRR	Shallow	EGLE	EGLE	EGLE	EGLE	EGLE	EGLE		EGLE						
CH-101D	Exists	TSRR	Deep	EGLE							EGLE						
CH-101I	Exists	TSRR	Shallow	EGLE	EGLE	EGLE	EGLE	EGLE	EGLE		EGLE						
CH-127S	Exists	W of TSRR	Intermed.	EGLE	EGLE	EGLE	EGLE	EGLE	EGLE								
CH-151S	Exists	NE of TSRR	Shallow	EGLE							EGLE						
DEQ-9A	Exists	NW of TSRR	Shallow	EGLE							EGLE						
DEQ-9B	Exists	NW of TSRR	Intermed.	EGLE	EGLE	EGLE	EGLE	EGLE	EGLE		EGLE				EGLE	EGLE	
DEQ-10	Exists	NW of TSRR	Shallow	EGLE							EGLE						
DEQ-11	Exists	TSRR	Shallow												EGLE		
EW-1	Abandoned	TSRR GW Ex	Shallow														
EW-2	Abandoned	TSRR GW Ex	Shallow														
EW-3	Abandoned	TSRR GW Ex	Shallow														
EW-3R	Abandoned	TSRR GW Ex	Shallow														
EW-4	Abandoned	TSRR GW Ex	Shallow														
EW-5	Abandoned	TSRR GW Ex	Shallow														
EW-6	Abandoned	TSRR GW Ex	Shallow	EGLE													
EW-7	Abandoned	TSRR GW Ex	Shallow														
EW-8	Abandoned	TSRR GW Ex	Shallow														
EW-9	Abandoned	TSRR GW Ex	Shallow	EGLE													
T-6	Exists	NW of TSRR	Shallow	EGLE													
T-9	Exists	UG TSRR	Intermed.														
W-10D	Exists	NW of TSRR	Deep														
W-10I	Exists	NW of TSRR	Intermed.	EGLE	EGLE	EGLE	EGLE	EGLE	EGLE		EGLE						
W-16I	Exists	W of TSRR	Intermed.	EGLE	EGLE	EGLE	EGLE	EGLE	EGLE		EGLE						
W-18S	Exists	W of TSRR	Shallow	EGLE								X					
<b>Area Between TSRR and Southern Blocking Wells</b>																	
CH-139I	Exists	DG (NW) TSRR	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CH-139S	Exists	DG (NW) TSRR	Shallow	X		X	X	X	X	X	X	X	X	X	X	X	X
E-8	Exists	DG (NW) TSRR	Shallow	X		X	X	X	X	X	X	X	X	X	X	X	X
W-6D	Exists	DG (NW) TSRR	Deep	X													
W-6I	Exists	DG (NW) TSRR	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
W-6S	Exists	DG (NW) TSRR	Shallow	X		X	X	X	X	X	X	X	X	X	X	X	X
<b>Area East-Northeast of TSRR</b>																	
CH-133I	Abandoned	E of TSRR	Intermed.														
E-29	Abandoned	E of TSRR	Deep														
T-8	Exists	NE TSRR	Shallow														
W-7S	Exists	DG (NE) TSRR	Shallow														
<b>Paint Shop Source Area and Immediate Up &amp; Down Gradient Areas</b>																	
CH-106I	Exists	Paint Shop	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CH-140I	Exists	Paint Shop	Intermed.	X		X	X	X	X	X	X	X	X	X	X	X	X
CH-141I	Exists	Paint Shop	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CH-142I	Exists	Paint Shop	Intermed.	X													
CH-143I	Abandoned	Paint Shop	Intermed.														
CH-145I	Exists	Paint Shop	Intermed.	X		X	X	X	X	X	X	X	X	X	X	X	X
CH-146I	Exists	Paint Shop	Intermed.	X		X	X	X	X	X	X	X	X	X	X	X	X
GM-7	Exists	Paint Shop	Intermed.	X		X	X	X	X	X	X	X	X	X	X	X	X
PSAS-1	Exists	Paint Shop Sparge	Intermed.														
PSAS-2	Exists	Paint Shop Sparge	Intermed.														
PSRW-1	Abandoned	Paint Shop	Shallow														
PSRW-1A	Exists	Pain Shop	Shallow	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VS-1	Abandoned	Paint Shop SVE	Shallow														
VS-2	Abandoned	Paint Shop SVE	Shallow														
VS-3	Abandoned	Paint Shop SVE	Shallow														
VS-4	Abandoned	Paint Shop SVE	Shallow														
W-13	Exists	Pain Shop	Intermed.	X			X	X	X	X	X	X	X	X	X	X	X
W-14	Exists	Pain Shop	Intermed.	X				X	X	X	X	X	X	X	X	X	X
<b>Area Far Upgradient and Area Far East-Northeast of Paint Shop</b>																	
CH-102I	Exists	UG (SE) Paint Shop	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CH-103I	Abandoned	NE of Paint Shop	Intermed.														
CH-103S	Abandoned	NE of Paint Shop	Shallow														
E-12	Abandoned	E of Paint Shop	Intermed.														
E-13	Abandoned	NE of Paint Shop	Intermed.														
E-14	Abandoned	NE of Paint Shop	Intermed.														
E-7	Abandoned	UG (SE) Paint Shop	Shallow														
<b>Southern BW Line Immediate Vicinity &amp; Area Between BW Lines</b>																	
BW-9	Exists	SBW	Shallow/Int	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CH-105D	Exists	Southern WF	Deep														
CH-105I	Exists	Southern WF	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CH-108I	Exists	Between BWs	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CH-109D (V32)	Exists	Between BWs	Deep														
CH-144I	Exists	E of Southern WF	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CH-144S	Exists	E of Southern WF	Shallow	X				X	X	X	X	X	X	X	X	X	X
DEQ-3A	Exists	Between BWs	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DEQ-3C	Exists	Between BWs	Deep	X				X	X	X	X	X	X	X	X	X	X
DEQ-3D	Exists	Between BWs	Deep					X	X	X	X	X	X	X	X	X	X
DEQ-4A	Exists	Between BWs	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DEQ-4B	Exists	Between BWs	Intermed.					X	X	X	X	X	X	X	X	X	X
DEQ-4C	Exists	Between BWs	Deep	X				X	X	X	X	X	X	X	X	X	X
DEQ-5A	Exists	Between BWs	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DEQ-5B	Exists	Between BWs	Deep	X				X	X	X	X	X	X	X	X	X	X
DEQ-6	Exists	Between BWs	Deep	X				X	X	X	X	X	X	X	X	X	X
DEQ-7A	Exists	Between BWs	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DEQ-7B	Exists	Between BWs	Deep	X				X	X	X	X	X	X	X	X	X	X
DEQ-7C	Exists	Between BWs	Deep					X	X	X	X	X	X	X	X	X	X
DEQ-7D	Exists	Between BWs	Deep	X				X	X	X	X	X	X	X	X	X	X
DEQ-8A	Exists	Between BWs	Shallow	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DEQ-8B	Exists	Between BWs	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DEQ-8C	Exists	Between BWs	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DEQ-8D	Exists	Between BWs	Deep	X				X	X	X	X	X	X	X	X	X	X
DEQ-8E	Exists	Between BWs	Deep					X	X	X	X	X	X	X	X	X	X
E-16	Exists	Between BWs	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
E-31	Exists	Between BWs	Shallow					X	X	X	X	X	X	X	X	X	X
GM-1	Exists	Between BWs	Deep	X													

**TABLE 1. GWMP SUMMARY 2015-2020 (AND ORIGINALLY PROPOSED FOR 2021)**  
Verona Well Field Superfund Site

Page 3

Well	General Well Status as of July 2021	Approximate Well Location	General Well Depth	Hydraulic (Water Level) Monitoring							Groundwater Quality Monitoring						
				Actual 2015	Actual 2016	Actual 2017	Actual 2018	Actual 2019	Actual 2020	Originally Proposed 2021	Actual 2015	Actual 2016	Actual 2017	Actual 2018	Actual 2019	Actual 2020	Originally Proposed 2021
GMP-1D	Exists	Between BWs	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GMP-1I	Exists	Between BWs	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GMP-2D	Exists	Between BWs	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GMP-2I	Exists	Between BWs	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GMP-3D	Exists	Between BWs	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GMP-3I	Exists	Between BWs	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GMP-4D	Exists	Between BWs	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GMP-4I	Exists	Between BWs	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GMP-5D	Exists	Between BWs	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GMP-5I	Exists	Between BWs	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GMP-6D	Exists	Between BWs	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GMP-6I	Exists	Between BWs	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PZ-1	Exists	Between GMBW-6,7	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
T-10	Exists	Southern WF	Shallow	X													X
T-11	Abandoned	E of Southern WF	Shallow	X													X
W-11	Exists	Between BWs	Deep	X		X	X	X	X	X	X	X	X	X	X	X	X
W-1S	Exists	Between BWs	Shallow	X													X
W-2I	Exists	Between BWs	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
W-2S	Exists	Between BWs	Shallow	X													X
W-3S	Abandoned	Between BWs	Shallow	X													
<b>Northern BW Vicinity &amp; City Production Area</b>																	
CH-104I	Exists	Northern WF	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CH-136I	Exists	Northern WF	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CH-137I	Exists	Northern WF	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CH-138I	Exists	Northern WF	Intermed.														X
DEQ-1A	Exists	Northern WF	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DEQ-1B	Exists	Northern WF	Deep	X		X		X	X	X	X	X	X	X	X	X	X
DEQ-1C	Exists	Northern WF	Deep														
DEQ-1D	Exists	Northern WF	Deep														
DEQ-2A	Exists	Northern WF	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DEQ-2B	Exists	Northern WF	Deep	X				X	X	X	X	X	X	X	X	X	X
DEQ-2C	Exists	Northern WF	Deep														
DEQ-2D	Exists	Northern WF	Deep														
E-9	Exists	Northern WF	Intermed.														
E-10	Exists	Northern WF	Intermed.														
E-11	Abandoned	Northern WF	Shallow														
E-17	Exists	Northern WF	Intermed.														
E-19	Abandoned	Northern WF	Intermed.														
E-27	Exists	Northern WF	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
E-32	Exists	Northern WF	Intermed.														
E-33D	Exists	Northern WF	Deep														
E-33S	Exists	Northern WF	Shallow														
E-34	Exists	Northern WF	Deep														
E-35D	Exists	Northern WF	Deep														
E-35S	Exists	Northern WF	Shallow														
E-36	Exists	Northern WF	Deep														
GM-3I	Exists	Northern WF	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GM-4D	Exists	Northern WF	Deep	X		X		X		X		X		X		X	X
GM-4I	Exists	Northern WF	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GM-5I	Exists	Northern WF	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GM-6I	Exists	Northern WF	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GMP-7D	Exists	Northern WF	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GMP-7I	Exists	Northern WF	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GMP-8D	Exists	Northern WF	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GMP-8I	Exists	Northern WF	Intermed.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PZ-5	Exists	Btwn GMP8I, GM4I	Intermed.					X	X	X	X	X	X	X	X	X	X
V-18	Exists	Northern WF	Int./Deep														
V-19	Exists	Northern WF	Int./Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X
V-20	Exists	Northern WF	Int./Deep														
V-21	Exists	Northern WF	Int./Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X
V-22	Exists	NBW	Int./Deep	X		X		X	X	X	X	X	X	X	X	X	X
V-23	Exists	Northern WF	Int./Deep														
V-24	Exists	NBW	Int./Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X
V-25	Exists	NBW	Int./Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X
V-26	Exists	NBW	Int./Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X
V-27	Exists	NBW	Int./Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X
V-28	Exists	NBW	Int./Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X
V-29	Exists	Northern WF	Int./Deep														
<b>Area West of Battle Creek River and Bailey Park Vicinity</b>																	
CH-110S	Abandoned	NW of Bailey Park	Intermed.														
CH-111I	Exists	Bailey Park	Intermed.														
CH-111S	Exists	Bailey Park	Shallow														
CH-112I	Abandoned	Bailey Park	Intermed.														
CH-112S	Abandoned	Bailey Park	Shallow														
E-1	Abandoned	NW of Bailey Park	Intermed.														
E-2	Abandoned	N of Bailey Park	Intermed.														
E-3	Abandoned	N of Bailey Park	Intermed.														
E-6	Abandoned	W of Bailey Park	Shallow														
E-15	Abandoned	Bailey Park	Intermed.														
E-20	Abandoned	Bailey Park	Intermed.														
E-37D	Abandoned	S of Bailey Park	Deep														
E-38D	Abandoned	S of Bailey Park	Deep														
E-39D	Abandoned	S of Bailey Park	Deep														
E-40D	Abandoned	NW of Bailey Park	Deep														
USGS (H&N)	Exists	H&N on Capital Ave	Deep														
V-14	Exists	City Prod - Bailey Pk	Int./Deep														
V-15	Exists	City Prod - Bailey Pk	Int./Deep														
V-16	Exists	City Prod - Bailey Pk	Int./Deep														
V-17	Exists	City Prod - Bailey Pk	Int./Deep														
<b>Davis Oil Emmett Street Source Area</b>																	
DOMW-1R	Exists	Emmett/RR	Shallow														
DOMW-2R	Exists	Emmett/RR	Shallow														
DOMW-3R	Exists	Emmett/RR	Shallow														
DOMW-4R	Exists	Emmett/RR	Shallow														
DOMW-1	Exists	Emmett/RR	Shallow														
DOMW-2	Exists	Emmett/RR	Shallow														
DOMW-3	Exists	Emmett/RR	Shallow														
DOMW-4	Exists	Emmett/RR	Shallow														
DOMW-5	Exists	Emmett/RR	Shallow														
DOMW-6	Exists	Emmett/RR	Shallow														
DOMW-7	Exists	Emmett/RR	Shallow														
DOMW-8	Exists	Emmett/RR	Shallow														
DOMW-9	Exists	Emmett/RR	Shallow														
DOMW-10	Exists	Emmett/RR	Shallow														
DOMW-10D	Exists	Emmett/RR	Intermed.	EGLE													
DOMW-11	Exists	Emmett/RR	Shallow														
DOMW-12	Exists	Emmett/RR	Shallow														

TABLE 1. GWMP SUMMARY 2015-2020 (AND ORIGINALLY PROPOSED FOR 2021)  
Verona Well Field Superfund Site

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Well	General Well Status as of July 2021	Approximate Well Location	General Well Depth	Hydraulic (Water Level) Monitoring							Groundwater Quality Monitoring						
				Actual 2015	Actual 2016	Actual 2017	Actual 2018	Actual 2019	Actual 2020	Originally Proposed 2021	Actual 2015	Actual 2016	Actual 2017	Actual 2018	Actual 2019	Actual 2020	Originally Proposed 2021
DOMW-24	Exists	Emmett/RR	Shallow														
DOMW-25	Exists	Emmett/RR	Shallow														
DOMW-26	Exists	Emmett/RR	Shallow														
DOMW-27	Exists	Emmett/RR	Shallow														
DOMW-28	Exists	Emmett/RR	Shallow														
DOMW-29	Exists	Emmett/RR	Shallow														
DOMW-30	Exists	Emmett/RR	Shallow														
DOMW-31	Exists	Emmett/RR	Shallow														
DOMW-32	Exists	Emmett/RR	Shallow														
DOMW-33	Exists	Emmett/RR	Shallow														
DOMW-34	Exists	Emmett/RR	Shallow														
DOMW-35	Exists	Emmett/RR	Shallow														
DOMW-36	Exists	Emmett/RR	Shallow														
DORW-2	Exists	Emmett/RR	Shallow														
<b>City Production Wells</b>																	
V-13	Exists	City Prod - VWF	Int./Deep														
V-30	Exists	City Prod - VWF	Int./Deep														
V-31	Abandoned	City Prod - VWF	Int./Deep														
V-32	Abandoned	City Prod - VWF	Int./Deep														
V-33	Abandoned	City Prod - VWF	Int./Deep														
V-34	Abandoned	City Prod - VWF	Int./Deep														
V-35	Abandoned	City Prod - VWF	Int./Deep														
V-36	Exists	City Prod - VWF	Int./Deep														
V-37	Exists	City Prod - VWF	Int./Deep														
V-38	Exists	City Prod - VWF	Int./Deep														
V-39	Exists	City Prod - VWF	Int./Deep														
V-40	Exists	City Prod - VWF	Int./Deep														
V-41	Exists	City Prod - VWF	Int./Deep														
V-42	Exists	City Prod - VWF	Int./Deep														
V-43	Exists	City Prod - VWF	Int./Deep														
V-44	Exists	City Prod - VWF	Int./Deep														
V-45	Exists	City Prod - VWF	Int./Deep														
V-46	Exists	City Prod - VWF	Int./Deep														
V-47	Exists	City Prod - VWF	Int./Deep														
V-48	Exists	City Prod - VWF	Int./Deep														
V-49	Exists	City Prod - VWF	Int./Deep														
V-50	Exists	City Prod - VWF	Int./Deep														
V-51	Exists	City Prod - VWF	Int./Deep														
V-52	Exists	City Prod - VWF	Int./Deep														
V-53	Exists	City Prod - VWF	Int./Deep														
V-54	Exists	City Prod - VWF	Int./Deep														
<b>Miscellaneous Wells Listed on Historical Tables/Maps</b>																	
B-14	Abandoned	TSR	--														
B-15	Exists	TSR	--														
B-16	Exists	TSR	--														
B-22	Abandoned	TSR	--														
CH-132I	Exists	SW of TSR	--														
DNR-01	Exists	RR Landfill	--														
DNR-02	Exists	RR Landfill	--														
DNR-03	Exists	RR Landfill	--														
DNR-04	Exists	--	--														
DNR-05	Exists	--	--														
DNR-06	Exists	--	--														
E-4	Abandoned	NW of Bailey Park	--														
E-5	Abandoned	Bailey Park	--														
E-7	Abandoned	SW of TSR	--														
E-18	Abandoned	N of BC River/Bailey	--														
E-23	Abandoned	SW of Bailey Park	--														
ED1-1	Abandoned	--	--														
ED1-2	Abandoned	--	--														
ED1-3	Abandoned	--	--														
ED1-4	Abandoned	--	--														
G-1	Exists	Far SW Annex	--														
G-1A	Exists	Far SW Annex	--														
G-1B	Exists	Far SW Annex	--														
G-1C	Exists	Far SW Annex	--														
G-2	Exists	Far SW Annex	--														
G-2A	Abandoned	Far SW Annex	--														
G-3	Exists	Far SW Annex	--														
G-3A	Exists	Far SW Annex	--														
G-4	Exists	Far SW Annex	--														
G-4A	Exists	Far SW Annex	--														
G-5	Exists	Far SW Annex	--														
G-5A	Exists	Far SW Annex	--														
G-6	Exists	Far SW Annex	--														
G-7(S)	Exists	Far SW Annex	--														
G-7A(I)	Exists	Far SW Annex	--														
G-8	Exists	Far SW Annex	--														
G-8A	Exists	Far SW Annex	--														
G-9(S)	Exists	SW of Annex	--														
G-9(AU)	Abandoned	SW of Annex	--														
G-10(S)	Abandoned	SW of Annex	--														
G-10A(I)	Exists	SW of Annex	--														
G-10B(D)	Abandoned	SW of Annex	--														
G-11(S)	Exists	SW of Annex	--														
G-11A(I)	Exists	SW of Annex	--														
G-11B(D)	Exists	SW of Annex	--														
GT-1	Abandoned	GWT/RR	--														
GT-2	Abandoned	GWT/RR	--														
GT-3	Abandoned	GWT/RR	--														
GT-4	Abandoned	GWT/RR	--														
M	Abandoned	Nhd NW of Annex	--														
OW-1	Exists	--	--														
OW-2	Exists	--	--														
OW-3	Exists	RR Landfill	--														
OW-4	Exists	RR Landfill	--														
OW-5	Exists	RR Landfill	--														
P	Abandoned	--	--														
P-113I	Abandoned	Nhd N of dam	--														
P-113S	Abandoned	Nhd N of dam	--														
P-114I	Abandoned	Nhd W of dam	--														
P-114S	Abandoned	Nhd W of dam	--														
P-115I	Abandoned	S of dam	--														
P-115S	Abandoned	S of dam	--														
P-116I	Abandoned	Nhd SW of dam	--														
P-117I	Abandoned	Far SW of dam	--														
P-119S	Abandoned	NE of Bailey Park	--														
P-124I	Abandoned	Far NE of Paint Shop	--														
P-125I	Abandoned	Far NE of Paint Shop	--														
PC-1A	Exists	PS SVE PZ	--														
PC-1B	Exists	PS SVE PZ	--														
PC-2A	Exists	PS SVE PZ	--														
PC-2B	Exists	PS SVE PZ	--														
PC-3A	Exists	PS SVE PZ	--														
PC-3B	Exists	PS SVE PZ	--				</										

TABLE 1. GWMP SUMMARY 2015-2020 (AND ORIGINALLY PROPOSED FOR 2021)  
Verona Well Field Superfund Site

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Well	General Well Status as of July 2021	Approximate Well Location	General Well Depth	Hydraulic (Water Level) Monitoring							Groundwater Quality Monitoring						
				Actual 2015	Actual 2016	Actual 2017	Actual 2018	Actual 2019	Actual 2020	Originally Proposed 2021	Actual 2015	Actual 2016	Actual 2017	Actual 2018	Actual 2019	Actual 2020	Originally Proposed 2021
PZ-2B	Exists	Annex SVE PZ	--														
PZ-3A	Exists	Annex SVE PZ	--														
PZ-3B	Exists	Annex SVE PZ	--														
PZ-4A	Exists	Annex SVE PZ	--														
PZ-4B	Exists	Annex SVE PZ	--														
PZ-5A	Exists	Annex SVE PZ	--														
PZ-5B	Exists	Annex SVE PZ	--														
PZ-6A	Exists	Annex SVE PZ	--														
PZ-6B	Exists	Annex SVE PZ	--														
PZ-7A	Exists	Annex SVE PZ	--														
PZ-7B	Exists	Annex SVE PZ	--														
R	Abandoned	--	--														
S-1	Abandoned	Far NE of Paint Shop	--														
SG-1	Abandoned	Staff gauge SW of dam	--														
SG-3	Abandoned	Staff gauge N of dam	--														
SG-4	Abandoned	Staff gauge NE of WF	--														
SG-5	Abandoned	Staff gauge NE of WF	--														
T-12	Abandoned	Far SW Annex	--														
T-13	Abandoned	Far SW Annex	--														
T-14	Abandoned	Far SW Annex	--														
V-1	Abandoned	City Prod - VWF	--														
V-2	Abandoned	City Prod - VWF	--														
V-3	Abandoned	City Prod - VWF	--														
V-4	Abandoned	City Prod - VWF	--														
V-5	Abandoned	City Prod - VWF	--														
V-6	Abandoned	City Prod - VWF	--														
V-7	Abandoned	City Prod - VWF	--														
V-8	Abandoned	City Prod - VWF	--														
<b>City Production System Influent Plant Tap</b>																	
Infl Tap	Exists	VWF	Tap														
Total Location Count	142	71	97	92	118	140	77	134	X	X	X	X	X	X	101	X	60

**TABLE 2. MASTER SUMMARY OF WELL CONSTRUCTION DETAILS (AS OF JULY 2021)**  
Verona Well Field Superfund Site

Well	General Well Status as of July 2021	Approximate Well Location	General Well Depth	Geologic Unit Code <sup>1</sup>	Date Installed	Date Abandoned	Northing (add 15,300,000)	Easting (add 2,100,000)	Surveyed T.O.C. Elevation	Ground Elevation	Stickup	Borehole/ Screen Diameter	Screen Length	Total Boring Depth	Depth to Bottom of Casing	Depth to Top of Filter Pack	Depth to Top of Screen	Depth to Bottom of Screen	Depth to Bottom of Filter Pack	Boring Bottom Elevation	Casing Bottom Elevation	Top of Filter Pack Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Bottom of Filter Pack Elevation		
<b>Annex Source Area and Immediate Up &amp; Down Gradient Areas</b>																											
APZ-1	Exists	Annex Sparge PZ	Shallow	Gtb	Jul-2003		80674.98	42060.55	844.67	841.90	2.77	1.0	5.0	26.0	21.0	19.0	21.0	26.0	815.9	820.9	822.9	820.9	815.9	815.9	815.9	815.9	
APZ-2	Exists	Annex Sparge PZ	Shallow	Gtb	Jul-2003		80689.84	42099.77	845.40	842.90	2.50	1.0	5.0	26.0	21.0	19.0	21.0	26.0	816.9	821.9	823.9	821.9	816.9	816.9	816.9	816.9	
APZ-3	Exists	Annex Sparge PZ	Shallow	Gtb	Jul-2003		80683.65	42104.19	845.22	842.90	2.32	1.0	5.0	26.0	21.0	19.0	21.0	26.0	816.9	821.9	823.9	821.9	816.9	816.9	816.9	816.9	
APZ-4	Exists	Annex Sparge PZ	Shallow	Gtb	Jul-2003		80673.29	42128.05	845.48	843.10	2.38	1.0	5.0	26.0	21.0	19.0	21.0	26.0	817.1	822.1	824.1	822.1	817.1	817.1	817.1	817.1	
APZ-5	Exists	Annex Sparge PZ	Shallow	Gtb	Jul-2003		80712.34	42210.85	846.54	843.80	2.74	1.0	5.0	26.0	21.0	19.0	21.0	26.0	817.8	822.8	824.8	822.8	817.8	817.8	817.8	817.8	
APZ-6	Exists	Annex Sparge PZ	Shallow	Gtb	Jul-2003		80670.66	42210.05	844.71	842.30	2.41	1.0	5.0	26.0	21.0	19.0	21.0	26.0	816.3	821.3	823.3	821.3	816.3	816.3	816.3	816.3	
APZ-7	Exists	Annex Sparge PZ	Shallow	Gtb	Jul-2003		80703.53	42236.18	845.63	843.40	2.23	1.0	5.0	26.0	21.0	19.0	21.0	26.0	817.4	822.4	824.4	822.4	817.4	817.4	817.4	817.4	
APZ-8	Exists	Annex Sparge PZ	Shallow	Gtb	Jul-2003		80680.28	42262.30	845.94	843.40	2.54	1.0	5.0	26.0	21.0	19.0	21.0	26.0	817.4	822.4	824.4	822.4	817.4	817.4	817.4	817.4	
ARW-1S	Exists	Annex GW Ex	Shallow	Gtb	May-2002		80685.00	42117.00	843.95	842.90	1.05	6.0	15.0	35.0	15.0	11.0	15.0	30.0	30.5	807.9	827.9	831.9	827.9	812.9	812.4	812.4	812.4
ARW-2S	Exists	Annex GW Ex	Shallow	Gtb	Jul-2003		80703.36	42197.64	844.47	843.50	0.97	6.0	15.0	35.0	15.0	11.0	15.0	30.0	30	808.5	828.5	832.5	828.5	813.5	813.5	813.5	813.5
AS-1	Exists	Annex Sparge	Shallow	Gtb	Dec-2002		80459.89	42215.18	841.91	841.80	0.11	2.0	2.0	24.0	22.0	20.0	22.0	24.0	817.8	819.8	821.8	819.8	817.8	817.8	817.8	817.8	
AS-2	Exists	Annex Sparge	Shallow	Gtb	Dec-2002		80461.20	42189.23	843.03	842.00	1.03	2.0	2.0	24.0	22.0	20.0	22.0	24.0	818.0	820.0	822.0	820.0	818.0	818.0	818.0	818.0	
AS-3	Exists	Annex Sparge	Shallow	Gtb	Oct-2004		80398.66	42204.29	842.89	841.90	0.99	2.0	2.0	21.0	18.5	15.5	18.5	20.5	820.9	823.4	826.4	823.4	821.4	821.4	821.4	821.4	
AS-4	Exists	Annex Sparge	Shallow	Gtb	Oct-2004		80418.39	42245.13	841.62	840.50	1.12	2.0	2.0	20.0	18.0	15.0	18.0	20.0	820.5	822.5	825.5	822.5	820.5	820.5	820.5	820.5	
AS-5	Exists	Annex Sparge	Shallow	Gtb	Oct-2004		80450.95	42238.89	841.92	840.80	1.12	2.0	2.0	22.0	20.0	17.0	20.0	22.0	818.8	820.8	823.8	820.8	818.8	818.8	818.8	818.8	
AS-6	Exists	Annex Sparge	Shallow	Gtb	Oct-2004		80425.10	42189.20	842.86	841.90	0.96	2.0	2.0	21.0	19.0	16.0	19.0	21.0	820.9	822.9	825.9	822.9	820.9	820.9	820.9	820.9	
AS-7	Exists	Annex Sparge	Shallow	Gtb	Oct-2004		80428.00	42219.77	841.84	841.10	0.74	2.0	2.0	21.5	19.5	16.5	19.5	21.5	819.6	821.6	824.6	821.6	819.6	819.6	819.6	819.6	
AS-8	Exists	Annex Sparge	Shallow	Gtb	Oct-2004		80442.17	42162.14	842.76	841.50	1.26	2.0	2.0	22.0	20.0	17.0	20.0	22.0	819.5	821.5	824.5	821.5	819.5	819.5	819.5	819.5	
AS-9	Exists	Annex Sparge	Shallow	Gtb	Oct-2004		80476.66	42150.76	843.18	842.10	1.08	2.0	2.0	22.0	20.0	17.0	20.0	22.0	820.1	822.1	825.1	822.1	820.1	820.1	820.1	820.1	
AS-10	Exists	Annex Sparge	Shallow	Gtb	Oct-2004		80476.43	42205.82	842.09	841.00	1.09	2.0	2.0	21.0	19.0	16.0	19.0	21.0	820.0	822.0	825.0	822.0	820.0	820.0	820.0	820.0	
AS-11	Exists	Annex Sparge	Shallow	Gtb	Oct-2004		80495.63	42176.32	842.57	841.70	0.87	2.0	2.0	22.5	20.5	17.5	20.5	22.5	819.2	821.2	824.2	821.2	819.2	819.2	819.2	819.2	
AS-12	Exists	Annex Sparge	Shallow	Gtb	Oct-2004		80505.94	42138.21	842.94	841.90	1.04	2.0	2.0	26.0	24.0	21.0	24.0	26.0	815.9	817.9	820.9	817.9	815.9	815.9	815.9	815.9	
AS-13	Exists	Annex Sparge	Shallow	Gtb	Oct-2004		80530.31	42163.67	842.55	841.50	1.05	2.0	2.0	23.0	21.0	18.0	21.0	23.0	818.5	820.5	823.5	820.5	818.5	818.5	818.5	818.5	
AS-14	Exists	Annex Sparge	Shallow	Gtb	Oct-2004		80515.62																				

**TABLE 2. MASTER SUMMARY OF WELL CONSTRUCTION DETAILS (AS OF JULY 2021)**  
Verona Well Field Superfund Site

Well	General Well Status as of July 2021	Approximate Well Location	General Well Depth	Geologic Unit Code <sup>1</sup>	Date Installed	Date Abandoned	Northing (add 15,300,000)	Easting (add 2,100,000)	Surveyed T.O.C. Elevation	Ground Elevation	Stickup	Borehole/ Screen Diameter	Screen Length	Total Boring Depth	Depth to Bottom of Casing	Depth to Top of Filter Pack	Depth to Top of Screen	Depth to Bottom of Screen	Depth to Bottom of Filter Pack	Boring Bottom Elevation	Casing Bottom Elevation	Top of Filter Pack Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Bottom of Filter Pack Elevation
Well_ID		Location	General_Geo_Code	Date_Inst	Date_Abnd	Northing	Easting	TOC_Elev	Grd_Elev	Scrn_Dia	Scrn_Ln	TD_Boring	DT_B_Cas	DT_T_Filt	DT_T_Scrn	DT_B_Scrn	DT_B_Filt	Bor_BE	Cas_BE	TO_Filt_Elev	O_Scr_Elev	B_Scr_Elev	B_Filt_Elev		
VE-16	Abandoned	Annex SVE	Shallow G	Mar-1993	Nov-2016	80556.27	42223.96	846.53	844.90	1.63	4.0	15.0	23.0	8.0	7.5	8.0	23.0	821.9	836.9	837.4	836.9	821.9	821.9		
VE-17	Abandoned	Annex SVE	Shallow G	Mar-1993	Nov-2016	80599.74	42204.09	844.57	841.80	2.77	4.0	15.0	20.0	5.0	4.0	5.0	20.0	20.0	--	--	--	--	--	--	
VE-18	Abandoned	Annex SVE	Shallow G	Mar-1993	Nov-2016	80646.14	42184.53	845.35	842.10	3.25	4.0	15.0	19.5	4.5	4.0	4.5	19.5	19.5	--	--	--	--	--	--	
W-9S	Exists	E of Annex	Shallow Gtb	Dec-1983		80818.66	42600.59	851.10	845.00	6.10	2.0	10.0	30.0	18.0	4.3	18.0	28.0	815.0	827.0	840.7	827.0	817.0	817.0		
W-11D	Abandoned	UG Annex	Deep Mlm	Dec-1983	Nov-2016	80161.90	42176.56	841.38	838.90	2.48	2.0	10.0	134.0	102.5	96.0	102.5	112.5	704.9	736.4	742.9	736.4	726.4	726.4		
<b>Area Between Annex and Southern Blocking Wells</b>																									
CH-150D	Exists	DG (NW) Annex	Deep Mt	--		80970.50	41933.63	842.78	843.09	-0.31	--	10.0	100.0	80.0	--	80.0	90.0	--	743.1	763.1	--	763.1	753.1	--	
CH-150I	Exists	DG (NW) Annex	Intermed. Mum	--		80976.05	41937.80	843.08	843.38	-0.30	--	10.0	50.0	40.0	--	40.0	50.0	--	793.4	803.4	--	803.4	793.4	--	
T-1	Exists	DG (NW) Annex	Shallow Gtb	Feb-1982		82017.63	42228.71	--	842.85	--	2.0	5.0	38.5	29.5	33.5	33.5	38.5	804.4	809.4	--	809.4	804.4	--		
W-12D	Abandoned	DG (NW) Annex	Deep Mll	Dec-1983	Unknown	82015.84	42160.54	844.79	842.90	1.89	2.0	10.0	140.0	106.0	85.0	106.0	116.0	702.9	736.9	757.9	736.9	726.9	726.9		
W-4D	Exists	Southern WF	Deep Mll	Dec-1984		82689.76	41978.91	842.92	841.50	1.42	2.0	10.0	134.0	106.0	100.0	106.0	116.0	707.5	735.5	741.5	735.5	725.5	725.5		
W-4I	Exists	Southern WF	Intermed. Mum	Dec-1983		82689.64	41989.21	843.50	841.60	1.90	2.0	10.0	65.0	55.0	56.0	55.0	65.0	776.6	786.6	785.6	786.6	776.6	776.6		
W-4S	Exists	Southern WF	Shallow G	Dec-1983		82689.50	42001.01	843.75	841.50	2.25	2.0	10.0	30.0	19.0	12.5	19.0	29.0	811.5	822.5	829.0	822.5	812.5	812.5		
W-8D	Exists	DG (NW) Annex	Deep Mt/Mll	Dec-1983		81377.36	41865.74	842.59	840.50	2.09	2.0	10.0	133.0	105.0	90.0	105.0	115.0	707.5	735.5	750.5	735.5	725.5	725.5		
W-8I	Exists	DG (NW) Annex	Intermed. Mut	Dec-1983		81372.58	41858.01	842.34	840.50	1.84	2.0	10.0	73.0	60.2	49.5	60.2	70.2	767.5	780.3	791.0	780.3	770.3	770.3		
W-8S	Exists	DG (NW) Annex	Shallow Gtb	Dec-1983		81389.22	41867.20	842.29	840.50	1.79	2.0	10.0	25.0	15.0	15.0	25.0	25.0	815.5	825.5	825.5	815.5	815.5	815.5		
<b>Area West/Northwest of Annex</b>																									
CH-130I	Abandoned	N'hd NW of Annex	Intermed. Mum	--	Jul-2008	81067.43	40695.21	835.48	833.70	1.78	--	10.0	123.0	35.0	--	35.0	45.0	--	710.7	798.7	--	798.7	788.7	--	
CH-130S	Abandoned	N'hd NW of Annex	Shallow G	--	Jul-2008	81067.42	40691.87	835.46	833.80	1.66	--	10.0	19.3	8.0	--	8.0	18.0	--	814.5	825.8	--	825.8	815.8	--	
CH-131D	Abandoned	N'hd NW of Annex	Deep DNE	--	--	82224.11	41256.76	838.40	838.30	0.10	--	10.0	--	--	--	--	--	--	--	--	--	--	--	--	
CH-131I	Abandoned	N'hd NW of Annex	Intermed. Mum	--	Jul-2008	82226.88	41243.99	840.28	838.20	2.08	--	10.0	70.0	48.0	--	48.0	58.0	--	768.2	790.2	--	790.2	780.2	--	
CH-131S	Abandoned	N'hd NW of Annex	Shallow G	--	Jul-2008	82227.24	41254.69	840.40	838.20	2.20	--	10.0	23.0	13.0	--	13.0	23.0	--	815.2	825.2	--	825.2	815.2	--	
E-21	Abandoned	N'hd NW of Annex	Intermed. Mut	--	May-2007	80831.13	39922.60	831.14	828.80	2.34	4.0	Open borehole	25.0	16.6	--	--	--	803.8	812.2	--	--	--	--		
E-22D	Abandoned	W of Annex	Deep Mb/MCt	--	WLU	80421.35	40979.87	841.23	836.70	4.53	4.0	Open borehole	130.0	55.6	--	--	--	706.7	781.1	--	--	--	--		
E-22S	Abandoned	W of Annex	Deep G	--	WLU	80421.35	40979.87	840.92	836.70	4.22	1.0	4.0	14.0	10.0	--	10.0	14.0	822.7	826.7	--	826.7	822.7	--		
T-2	Abandoned	N'hd NW of Annex	Shallow Mut	Mar-1982	Jul-2006	81595.66	40645.53	--	836.38	--	2.0	5.0	39.0	34.0	31.0	34.0	39.0	797.4	802.4	--	802.4	797.4	--		
T-3	Abandoned	W of Annex	Shallow Gtb	Mar-1982	WLU	80419.32	40564.29	--	833.43	--	2.0	5.0	38.5	33.5	29.5	33.5	38.5	794.9	799.9	--	799.9	794.9	--		
T-4	Abandoned	W-SW of Annex	Shallow Gtb	Feb-1982	Jul-2006	79978.66	40912.32	--	835.47	--	2.0	5.0	38.5	33.5	28.5	33.5	38.5	797.0	802.0	--	802.0	797.0	--		
W-5S	Exists	N'hd NW of Annex	Shallow G	Dec-1983		81448.46	41210.30	841.48	839.90	1.58	2.0	10.0	30.0	15.0	8.0	15.0	25.0	809.9	824.9	831.9	824.9	814.9	814.9		
<b>Area Far South-Southwest of Annex</b>																									
CH-129D	Abandoned	UG Annex	Deep Mlm	--	Nov-2016	79942.69	42005.19	841.53	839.00	2.53	--</														

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Verona Well Field Superfund Site

Well	General Well Status as of July 2021	Approximate Well Location	General Well Depth	Geologic Unit Code <sup>1</sup>	Date Installed	Date Abandoned	Northing (add 15,300,000)	Easting (add 2,100,000)	Surveyed T.O.C. Elevation	Ground Elevation	Stickup	Borehole/ Screen Diameter	Screen Length	Total Boring Depth	Depth to Bottom of Casing	Depth to Top of Filter Pack	Depth to Top of Screen	Depth to Bottom of Screen	Depth to Bottom of Filter Pack	Boring Bottom Elevation	Casing Bottom Elevation	Top of Filter Pack Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Bottom of Filter Pack Elevation			
Well_ID		Location	General Geo_Code	Date_Inst	Date_Abnd	Northing	Easting	TOC_Elev	Grd_Elev	Stickup	Scrn_Dia	Scrn_Ln	TD_Boring	DT_B_Cas	DT_T_Filt	DT_T_Scrn	DT_B_Scrn	DT_B_Filt	Bor_BE	Cas_BE	TO_Filt_Elev	O_Scr_Ele	B_Scr_Elev	B_Filt_Elev				
W-6I	Exists	DG (NW) TSRR	Intermed. Mul	Dec-1983		81467.72	42460.57	847.70	845.30	2.40	10.0	65.0	44.8	55.0	65.0	65.0	780.3	790.3	800.5	790.3	780.3	780.3						
W-6S	Exists	DG (NW) TSRR	Shallow G	Dec-1983		81468.05	42473.03	847.44	845.30	2.14	2.0	10.0	30.0	20.0	15.0	20.0	30.0	30.0	815.3	825.3	830.3	825.3	815.3	815.3				
<b>Area East-Northeast of TSR</b>																												
CH-133I	Abandoned	E of TSR	Intermed. Mul	--	Jul-2006	80974.40	45036.71	865.89	864.40	1.49	--	10.0	100.0	58.0	--	58.0	68.0	--	764.4	806.4	--	806.4	796.4	--				
E-29	Abandoned	E of TSR	Deep Mul/MCt	--	Jul-2006	80978.59	45036.94	865.85	863.40	2.45	4.0	Open borehole	156.0	52.0	--	--	--	--	707.4	811.4	--	--	--	--				
T-8	Exists	NE TSR	Shallow Mut	Feb-1982		81523.49	43935.98	853.33	851.36	1.97	2.0	5.0	39.0	34.0	31.0	34.0	39.0	39.0	812.4	817.4	--	817.4	812.4	--				
W-7S	Exists	DG (NE) TSR	Shallow G	Dec-1983		81546.00	43135.00	--	843.90	--	2.0	10.0	30.0	20.0	7.0	20.0	30.0	30.0	813.9	823.9	836.9	823.9	813.9	813.9				
<b>Paint Shop Source Area and Immediate Up &amp; Down Gradient Areas</b>																												
CH-106I	Exists	Paint Shop	Intermed. Mut	--		82728.62	43292.52	843.86	844.70	-0.84	--	10.0	110.0	30.0	--	30.0	40.0	--	734.7	814.7	--	814.7	804.7	--				
CH-140I	Exists	Paint Shop	Intermed. Mut	--		82802.72	43395.58	843.66	844.55	-0.89	--	10.0	75.0	30.0	--	30.0	40.0	--	769.6	814.6	--	814.6	804.6	--				
CH-141I	Exists	Paint Shop	Intermed. Mut	--		83061.95	43405.92	844.28	844.73	-0.45	--	10.0	58.0	37.0	--	37.0	47.0	--	786.7	807.7	--	807.7	797.7	--				
CH-142I	Exists	Paint Shop	Intermed. Mut	--		82884.61	43231.31	843.48	843.80	-0.32	--	10.0	70.0	40.0	--	40.0	50.0	--	773.8	803.8	--	803.8	793.8	--				
CH-143I	Abandoned	Paint Shop	Intermed. Mut	--	WLU	82672.42	43091.01	841.90	843.88	-1.98	--	10.0	70.0	35.0	--	35.0	45.0	--	773.9	808.9	--	808.9	798.9	--				
CH-145I	Exists	Paint Shop	Intermed. Mut	--		82704.73	43354.66	844.15	843.70	0.45	--	10.0	58.0	24.0	--	24.0	34.0	--	785.7	819.7	--	819.7	809.7	--				
CH-146I	Exists	Paint Shop	Intermed. Mut	--		82800.47	43302.86	844.42	844.91	-0.49	--	10.0	--	30.0	--	30.0	40.0	--	814.9	804.9	--	814.9	804.9	--				
GM-7	Exists	Paint Shop	Intermed. Mut	Jul-1999		82858.99	43260.56	843.90	844.65	-0.75	2.0	5.0	175.0	78.0	74.0	78.0	83.0	88.0	669.7	766.7	770.7	766.7	761.7	756.7				
PSAS-1	Exists	Paint Shop Sparge	Intermed. Mut	Jun-2005		82722.99	43289.47	844.32	844.76	-0.44	2.0	2.0	57.5	53.00	51.00	53.0	55.0	57.50	--	--	--	--	--	--				
PSAS-2	Exists	Paint Shop Sparge	Intermed. Mut	Jun-2005		82733.51	43349.66	844.24	844.75	-0.51	2.0	2.0	56.5	53.00	51.00	53.0	55.0	56.50	--	--	--	--	--	--				
PSRW-1	Abandoned	Paint Shop	Shallow Mut	May-2002	Unknown	--	--	--	--	--	--	--	60.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
PSRW-1A	Exists	Paint Shop	Shallow Mut	Jul-2002		82714.00	43350.00	843.77	844.33	-0.56	6.0	20.0	45.0	25.0	21.0	25.0	45.0	46.0	799.3	819.3	823.3	819.3	799.3	798.3				
VS-1	Abandoned	Paint Shop SVE	Shallow G/Gtb	Mar-1993	Nov-2016	82690.50	43370.52	843.31	843.56	-0.25	4.0	10.0	19.2	9.2	8.5	9.2	19.2	19.2	824.4	834.4	835.1	834.4	824.4	824.4				
VS-2	Abandoned	Paint Shop SVE	Shallow G/Gtb	Mar-1993	WLU	82686.07	43317.70	844.08	844.39	-0.31	4.0	10.0	20.0	10.0	9.0	10.0	20.0	20.0	824.4	834.4	835.4	834.4	824.4	824.4				
VS-3	Abandoned	Paint Shop SVE	Shallow G/Gtb	Mar-1993	Nov-2016	82723.27	43287.73	844.12	844.71	-0.59	4.0	10.0	24.5	14.5	13.0	14.5	24.5	24.5	820.2	830.2	831.7	830.2	820.2	820.2				
VS-4	Abandoned	Paint Shop SVE	Shallow G/Gtb	Mar-1993	Nov-2016	82733.04	43347.65	844.54	844.86	-0.32	4.0	10.0	17.2	9.2	6.5	9.2	17.2	17.2	827.7	835.7	838.4	835.7	827.7	827.7				
W-13	Exists	Paint Shop	Intermed. Mut	Jul-1984		82742.47	43290.65	844.27	844.62	-0.35	2.0	10.0	31.0	20.0	--	20.0	30.0	31.0	813.6	824.6	--	824.6	814.6	813.6				
W-14	Exists	Paint Shop	Intermed. Mut	Jul-1984		82686.81	43367.40	843.85	844.13	-0.28	2.0	10.0	31.0	20.0	--	20.0	30.0	31.0	813.1	824.1	--	824.1	814.1	813.1				
<b>Area Far Upgradient and Area Far East-Northeast of Paint Shop</b>																												
CH-102I	Exists	UG (SE) Paint Shop	Intermed. Mut	--		82108.35	43526.61	852.11	852.71	-0.60	--	10.0	37.8	25.0	--	25.0	35.0	--	814.9	827.7	--	827.7	817.7	--				
CH-103I	Abandoned	NE of Paint Shop	Intermed. Mut	--	Aug-2006	85258.87	44567.33	849.09																				

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Well	General Well Status as of July 2021	Approximate Well Location	General Well Depth	Geologic Unit Code <sup>1</sup>	Date Installed	Date Abandoned	Northing (add 15,300,000)	Easting (add 2,100,000)	Surveyed T.O.C. Elevation	Ground Elevation	Stickup	Borehole/Screen Diameter	Screen Length	Total Boring Depth	Depth to Bottom of Casing	Depth to Top of Filter Pack	Depth to Top of Screen	Depth to Bottom of Screen	Depth to Bottom of Filter Pack	Boring Bottom Elevation	Casing Bottom Elevation	Top of Filter Pack Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Bottom of Filter Pack Elevation
Well_ID		Location	General Geo_Code	Date_Inst	Date_Abnd	Northing	Easting	Surveyed T.O.C. Elevation	Ground Elevation	Stickup	Scrn_Dia	Scrn_Ln	TD_Boring	DT_B_Cas	DT_T_Filt	DT_T_Scrn	DT_B_Scrn	DT_B_Filt	Bor_BE	Cas_BE	TO_Filt_Elev	O_Scr_Elev	B_Scr_Elev	B_Filt_Elev	
GMP-3D	Exists	Between BWs	Deep Mlm	Oct-1996		83063.78	42615.04	842.74	840.10	2.64	2.0	5.0	105.0	100.0	98.0	100.0	105.0	105.0	735.1	740.1	742.1	740.1	735.1	735.1	
GMP-3I	Exists	Between BWs	Intermed. Mum/Mul	Oct-1996		83062.30	42617.98	842.62	840.10	2.52	2.0	5.0	60.0	55.0	53.0	55.0	60.0	60.0	780.1	785.1	787.1	785.1	780.1	780.1	
GMP-4D	Exists	Between BWs	Deep Mll	Oct-1996		83710.42	42588.74	837.28	834.70	2.58	2.0	5.0	105.0	100.0	98.0	100.0	105.0	105.0	729.7	734.7	736.7	734.7	729.7	729.7	
GMP-4I	Exists	Between BWs	Deep Mul/Mlt	Oct-1996		83714.20	42588.29	837.53	834.70	2.83	2.0	5.0	70.0	65.0	63.0	65.0	70.0	70.0	764.7	769.7	771.7	769.7	764.7	764.7	
GMP-5D	Exists	Between BWs	Deep Mlm	Oct-1996		83573.41	42838.01	839.06	837.20	1.86	2.0	5.0	110.0	105.0	103.0	105.0	110.0	110.0	727.2	732.2	734.2	732.2	727.2	727.2	
GMP-5I	Exists	Between BWs	Intermed. Mum	Oct-1996		83572.56	42841.54	839.47	836.80	2.67	2.0	5.0	75.0	70.0	68.0	70.0	75.0	75.0	761.8	766.8	768.8	766.8	761.8	761.8	
GMP-6D	Exists	Between BWs	Deep Mlm	Oct-1996		83715.42	42910.35	839.50	837.20	2.30	2.0	5.0	110.0	105.0	104.0	105.0	110.0	110.0	727.2	732.2	733.2	732.2	727.2	727.2	
GMP-6I	Exists	Between BWs	Intermed. Mum	Oct-1996		83714.61	42913.79	839.54	837.20	2.34	2.0	5.0	75.0	70.0	68.0	70.0	75.0	75.0	762.2	767.2	769.2	767.2	762.2	762.2	
PZ-1	Exists	Between GMBW-6,7	Intermed. Mut	Sep-2003		82902.12	42340.26	844.38	841.40	2.98	2.0	5.0	59.5	54.5	52.5	54.5	59.5	59.5	781.9	786.9	788.9	786.9	781.9	781.9	
T-10	Exists	Southern WF	Shallow G	Mar-1982		82880.00	42633.00	842.70	841.53	--	2.0	5.0	39.0	34.0	29.0	34.0	39.0	39.0	802.5	807.5	--	807.5	802.5	--	
T-11	Abandoned	E of Southern WF	Shallow G	Mar-1982	Dec-2016	83191.00	42930.00	--	839.39	--	2.0	5.0	39.0	34.0	29.0	34.0	39.0	39.0	800.4	805.4	--	805.4	800.4	--	
W-1I	Exists	Between BWs	Deep Mul/Mlt	Jul-1984		84255.30	43246.72	837.35	834.70	2.65	2.0	10.0	110.0	69.4	67.0	69.4	79.4	79.4	724.7	765.3	767.7	765.3	755.3	755.3	
W-1S	Exists	Between BWs	Shallow G	Dec-1983		84267.31	43246.14	bent	834.20	--	2.0	10.0	30.0	15.0	11.0	15.0	25.0	25.0	804.2	819.2	823.2	819.2	809.2	809.2	
W-2I	Exists	Between BWs	Intermed. Mum	Jul-1984		83677.42	42992.13	839.34	838.30	1.04	2.0	10.0	80.0	59.0	54.0	59.0	69.0	69.0	758.3	779.3	784.3	779.3	769.3	769.3	
W-2S	Exists	Between BWs	Shallow G	Dec-1983		83700.27	42986.72	839.41	837.60	1.81	2.0	9.5	40.0	19.0	13.0	19.0	28.5	28.5	797.6	818.6	824.6	818.6	809.1	809.1	
W-3S	Abandoned	Between BWs	Shallow G	Dec-1983	Nov-2016	83931.09	42455.76	830.45	828.90	1.55	2.0	9.5	30.0	10.0	7.0	20.0	20.0	798.9	818.9	821.9	818.4	808.9	808.9		
<b>Northern BW Vicinity &amp; City Production Area</b>																									
CH-104I	Exists	Northern WF	Intermed. Mut	--		85555.86	43714.48	840.98	838.10	2.88	--	10.0	45.0	35.0	--	35.0	45.0	--	793.1	803.1	--	803.1	793.1	--	
CH-136I	Exists	Northern WF	Intermed. Mum	--		85245.74	42636.01	837.46	835.70	1.76	--	10.0	63.0	53.0	--	53.0	63.0	--	772.7	782.7	--	782.7	772.7	--	
CH-137I	Exists	Northern WF	Intermed. Mut	--		85627.02	42636.93	837.67	835.40	2.27	--	10.0	67.0	57.0	--	57.0	67.0	--	768.4	778.4	--	778.4	768.4	--	
CH-138I	Exists	Northern WF	Intermed. Mut	--		84921.26	41454.52	832.97	831.10	1.87	--	10.0	62.0	52.0	--	52.0	62.0	--	769.1	779.1	--	779.1	769.1	--	
DEQ-1A	Exists	Northern WF	Intermed. Mum	Jul-1999		84991.50	42619.40	836.54	834.40	2.14	2.0	5.0	102.0	51.0	49.0	51.0	56.0	57.0	732.4	783.4	785.4	783.4	778.4	777.4	
DEQ-1B	Exists	Northern WF	Deep Mlt	Jul-1999		84991.50	42619.40	836.65	834.40	2.25	2.0	5.0	102.0	94.0	92.0	94.0	99.0	101.0	732.4	740.4	742.4	740.4	735.4	733.4	
DEQ-1C	Exists	Northern WF	Deep Mll	Jul-1999		84980.60	42616.10	836.35	834.40	1.95	2.0	5.0	150.0	125.5	123.5	125.5	130.5	131.5	684.4	708.9	710.9	708.9	703.9	702.9	
DEQ-1D	Exists	Northern WF	Deep Mll	Jul-1999		84980.60	42616.10	836.11	834.40	1.71	2.0	5.0	150.0	138.0	136.0	138.0	143.0	144.0	684.4	696.4	698.4	696.4	691.4	690.4	
DEQ-2A	Exists	Northern WF	Intermed. Mut	Jul-1999		84934.40	43472.10	832.51	830.30	2.21	2.0	5.0	82.0	43.0	41.0										

**TABLE 2. MASTER SUMMARY OF WELL CONSTRUCTION DETAILS (AS OF JULY 2021)**  
Verona Well Field Superfund Site

Well	General Well Status as of July 2021	Approximate Well Location	General Well Depth	Geologic Unit Code <sup>1</sup>	Date Installed	Date Abandoned	Northing (add 15,300,000)	Easting (add 2,100,000)	Surveyed T.O.C. Elevation	Ground Elevation	Stickup	Borehole/Screen Length	Screen	Total Boring Depth	Depth to Bottom of Casing	Depth to Top of Filter Pack	Depth to Top of Screen	Depth to Bottom of Screen	Depth to Bottom of Filter Pack	Boring Bottom Elevation	Casing Bottom Elevation	Top of Filter Pack Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Bottom of Filter Pack Elevation
Well_ID		Location	General_Geo_Code	Date_Inst	Date_Abnd		Northing	Easting	TOC_Elev	Grd_Elev	Stickup	Scrn_Dia	Scrn_Ln	TD_Boring	DT_B_Cas	DT_T_Filt	DT_T_Scrn	DT_B_Scrn	DT_B_Filt	Bor_BE	Cas_BE	TO_Filt_Elev	O_Scr_Elev	B_Scr_Elev	B_Filt_Elev
USGS (H&N)	Exists	H&N on Capital Ave	Deep	--	--		84380.10	38979.76	846.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-14	Exists	City Prod - Bailey Pk	Int./Deep	--	Jan-1939		84634.62	39333.72	--	840.00	--	12.0	Open borehole	129.0	--	--	--	--	--	711.0	--	--	--	--	--
V-15	Exists	City Prod - Bailey Pk	Int./Deep	--	Feb-1939		84665.41	39961.09	--	836.00	--	12.0	Open borehole	141.0	42.0	--	--	--	--	695.0	794.0	--	--	--	--
V-16	Exists	City Prod - Bailey Pk	Int./Deep	--	Mar-1939		84613.00	40529.00	--	834.00	--	12.0	Open borehole	135.0	32.0	--	--	--	--	699.0	802.0	--	--	--	--
V-17	Exists	City Prod - Bailey Pk	Int./Deep	--	Mar-1939		84627.69	40940.05	--	831.00	--	12.0	Open borehole	133.0	51.5	--	--	--	--	698.0	779.5	--	--	--	--
<b>Davis Oil Emmett Street Source Area</b>																									
DOMW-1R	Ask EGLE	Emmett/RR	Shallow	G	Sep-1986		--	--	--	--	--	2.0	4.0	22.0	16.0	--	16.0	20.0	--	--	--	--	--	--	--
DOMW-2R	Ask EGLE	Emmett/RR	Shallow	G	Sep-1986		--	--	--	--	--	2.0	4.0	21.0	14.0	--	14.0	18.0	--	--	--	--	--	--	--
DOMW-3R	Ask EGLE	Emmett/RR	Shallow	G	Nov-1986		--	--	--	--	--	2.0	6.0	18.5	14.0	--	14.0	20.0	--	--	--	--	--	--	--
DOMW-4R	Ask EGLE	Emmett/RR	Shallow	G	Nov-1986		--	--	--	--	--	2.0	6.0	21.0	14.0	--	14.0	20.0	--	--	--	--	--	--	--
DOMW-1	Ask EGLE	Emmett/RR	Shallow	G	Jul-1999		80797.59	42719.47	845.26	845.47	-0.21	2.0	10.0	30.0	14.0	16.0	14.0	24.00	30.0	815.5	831.5	829.5	831.5	821.5	815.5
DOMW-2	Ask EGLE	Emmett/RR	Shallow	G	Jul-1999		80759.78	42856.89	846.36	846.66	-0.30	2.0	10.0	30.0	16.4	16.0	16.4	26.39	30.0	816.7	830.3	830.7	830.3	820.3	816.7
DOMW-3	Ask EGLE	Emmett/RR	Shallow	G	Jul-1999		80806.66	42857.14	846.42	846.78	-0.36	2.0	10.0	30.0	18.2	16.0	18.2	28.15	30.0	816.8	828.6	830.8	828.6	818.6	816.8
DOMW-4	Ask EGLE	Emmett/RR	Shallow	G	Jul-1999		80854.19	42863.82	846.33	846.59	-0.26	2.0	10.0	30.0	11.5	16.0	11.5	21.53	30.0	816.6	835.1	830.6	835.1	825.1	816.6
DOMW-5	Ask EGLE	Emmett/RR	Shallow	G	Jun-2000		80772.13	42865.14	846.40	846.80	-0.40	1.0	10.0	27.0	16.7	14.0	16.7	26.71	27.0	819.8	830.1	832.8	830.1	820.1	819.8
DOMW-6	Ask EGLE	Emmett/RR	Shallow	G	Jun-2000		80745.19	42847.11	845.98	846.34	-0.36	1.0	10.0	27.0	18.8	--	18.8	28.75	27.0	819.3	827.6	--	827.6	817.6	819.3
DOMW-7	Ask EGLE	Emmett/RR	Shallow	G	May-2000		80766.68	42844.85	846.48	846.79	-0.31	1.0	10.0	27.0	16.1	9.0	16.1	26.13	27.0	819.8	830.7	837.8	830.7	820.7	819.8
DOMW-8	Ask EGLE	Emmett/RR	Shallow	G	May-2000		80752.42	42868.37	846.25	846.71	-0.46	1.0	10.0	27.0	16.7	9.0	16.7	26.72	27.0	819.7	830.0	837.7	830.0	820.0	819.7
DOMW-9	Ask EGLE	Emmett/RR	Shallow	G	May-2001		80812.00	42751.00	844.95	845.44	-0.49	2.0	10.0	23.05	13.1	--	13.1	23.05	--	822.4	832.4	--	831.9	821.9	--
DOMW-10	Ask EGLE	Emmett/RR	Shallow	G	May-2001		80769.00	42879.00	846.27	846.67	-0.40	2.0	10.0	27.20	17.2	--	17.2	27.20	--	819.5	829.5	--	829.1	819.1	--
DOMW-10D	Ask EGLE	Emmett/RR	Intermed.	--	May-2002		80767.00	42880.00	846.21	846.67	-0.46	2.0	5.0	45.0	34.5	16.0	39.5	44.5	45.0	801.7	812.2	830.7	806.7	--	--
DOMW-11	Ask EGLE	Emmett/RR	Shallow	G	May-2001		80798.00	42868.00	846.56	846.85	-0.29	2.0	10.0	25.18	15.2	13.0	15.2	25.18	--	821.7	831.7	833.9	831.4	821.4	--
DOMW-12	Ask EGLE	Emmett/RR	Shallow	G	May-2001		80798.00	42845.00	846.82	847.07	-0.25	2.0	10.0	25.12	15.1	13.0	15.1	25.12	--	822.0	832.0	834.1	831.7	821.7	--
DOMW-13	Ask EGLE	Emmett/RR	Shallow	G	May-2001		80775.00	42830.00	846.63	846.98	-0.35	2.0	10.0	25.00	15.0	13.0	15.0	25.00	--	822.0	832.0	834.0	831.6	821.6	--
DOMW-14	Ask EGLE	Emmett/RR	Shallow	G	Dec-2001		80849.00	42808.00	846.04	846.36	-0.32	2.0	10.0	26.00	16.0	12.0	16.0	26.00	26.0	820.4	830.4	834.4	830.0	820.0	--
DOMW-15	Ask EGLE	Emmett/RR	Shallow	G	Dec-2001		80759.00	42790.00	846.12	846.51	-0.39	2.0	10.0	26.00	16.0	12.0	16.0	26.00	26.0	820.5	830.5	834.5	830.1	820.1	--
DOMW-16	Ask EGLE	Emmett/RR	Intermed.	--	May-2002		80876.81	42839.60	846.76	847.05	-0.29	2.0	5.0	48.50	36.0	18.0	36.0	41.00	--	798.6	811.1	829.1	810.8	--	--
DOMW-17	Ask EGLE	Emmett/RR	Shallow	G	Mar-2004		80767.74	42725.36	845.51	845.86	-0.35	2.0	10.0	28.00	18.0	16.0	18.0	28.00	--	--	--	--	--	--	--
DOMW-18	Ask EGLE	Emmett/RR	Shallow	G	Mar-2004		80692.62	42736.18	845.71	846.11	-0.40	2.0	10.0	28.00	18.0	15.0	18.0	28.00	--	--	--	--	--	--	--
DOMW-19	Ask EGLE	Emmett/RR	Shallow	G	Dec-2003		80713.36	42812.58	845.72	846.14	-0.42	2.0	10.0	28.00	18.0	16.0	18.0	28.00	--	--	--	--	--	--	--
DOMW-20	Ask EGLE	Emmett/RR	Shallow	G	Dec-2003		80728.51	42875.93	846.52	8															

**TABLE 2. MASTER SUMMARY OF WELL CONSTRUCTION DETAILS (AS OF JULY 2021)**  
Verona Well Field Superfund Site

Well	General Well Status as of July 2021	Approximate Well Location	General Well Depth	Geologic Unit Code <sup>1</sup>	Date Installed	Date Abandoned	Northing (add 15,300,000)	Easting (add 2,100,000)	Surveyed T.O.C. Elevation	Ground Elevation	Stickup	Borehole/Screen Diameter	Screen Length	Total Boring Depth	Depth to Bottom of Casing	Depth to Top of Filter Pack	Depth to Top of Screen	Depth to Bottom of Screen	Depth to Bottom of Filter Pack	Boring Bottom Elevation	Casing Bottom Elevation	Top of Filter Pack Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Bottom of Filter Pack Elevation
Well_ID		Location	General	Geo_Code	Date_Inst	Date_Abnd	Northing	Easting	Surveyed	Ground	Stickup	Borehole/Screen Diameter	Screen Length	Total Boring Depth	Depth to Bottom of Casing	Depth to Top of Filter Pack	Depth to Top of Screen	Depth to Bottom of Screen	Depth to Bottom of Filter Pack	Boring Bottom Elevation	Casing Bottom Elevation	Top of Filter Pack Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Bottom of Filter Pack Elevation
CH-132I	Exists	SW of TSR	--	--	--	--	79985.41	43403.93	--	857.89	--	10.0	100.0	40.0	--	40.0	50.0	--	757.9	817.9	--	817.9	807.9	--	
DNR-01	Exists	RR Landfill	--	--	--	--	--	--	--	--	--	--	--	46.0	--	--	--	--	--	--	--	--	--	--	--
DNR-02	Exists	RR Landfill	--	--	--	--	--	--	--	--	--	--	--	58.0	--	--	--	--	--	--	--	--	--	--	--
DNR-03	Exists	RR Landfill	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
DNR-04	Exists	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
DNR-05	Exists	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
DNR-06	Exists	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
E-4	Abandoned	NW of Bailey Park	--	Mut	--	Jul-2006	85195.16	37793.79	883.02	881.10	1.92	2.0	10.0	81.0	70.0	--	71.0	81.0	--	800.1	811.1	--	810.1	800.1	--
E-5	Abandoned	Bailey Park	--	Mut	--	WLU	84716.89	40469.32	831.54	829.54	2.00	2.0	3.0	14.0	11.0	--	11.0	14.0	--	815.5	818.5	--	818.5	815.5	--
E-7	Abandoned	SW of TSR	--	--	--	WLU	79678.22	43455.56	868.28	866.18	2.10	--	Open borehole	55.0	51.9	--	--	--	--	811.2	814.3	--	--	--	--
E-18	Abandoned	N of BC River/Bailey	--	--	--	Jul-2006	90417.70	40026.53	848.98	845.40	3.58	2.0	Open borehole	24.0	17.4	--	--	--	--	821.4	828.0	--	--	--	--
E-23	Abandoned	SW of Bailey Park	--	Mul/MCt	--	Jul-2006	78664.31	36911.65	848.80	845.10	3.70	4.0	Open borehole	155.0	77.4	--	--	--	--	690.1	767.7	--	--	--	--
EDI-1	Abandoned	--	--	--	--	WLU	--	--	--	--	2.0	--	--	--	--	--	--	14.4	--	--	--	--	--	--	--
EDI-2	Abandoned	--	--	--	--	WLU	--	--	--	--	2.0	--	--	--	--	--	--	12.0	--	--	--	--	--	--	--
EDI-3	Abandoned	--	--	--	--	WLU	--	--	--	--	2.0	--	--	--	--	--	--	14.0	--	--	--	--	--	--	--
EDI-4	Abandoned	--	--	--	--	WLU	--	--	--	--	2.0	--	--	--	--	--	--	13.2	--	--	--	--	--	--	--
G-1	Exists	Far SW Annex	--	G	Jun-1982	--	--	833.47	831.90	1.57	1.3	3.0	17.5	14.5	13.5	14.5	17.5	17.5	814.4	817.4	818.4	817.4	814.4	814.4	814.4
G-1A	Exists	Far SW Annex	--	G	Aug-1982	--	--	834.18	831.20	2.98	2.0	4.0	28.0	23.5	22.5	23.5	27.5	27.5	803.2	807.7	808.7	807.7	803.7	803.7	803.7
G-1B	Exists	Far SW Annex	--	G	Aug-1982	--	--	834.58	831.60	2.98	2.0	4.0	41.5	33.0	32.0	33.0	37.0	37.0	790.1	798.6	799.6	798.6	794.6	794.6	794.6
G-1C	Exists	Far SW Annex	--	MII/MCt	Aug-1982	--	--	833.64	832.10	1.54	4.0	Open borehole	110.0	87.0	--	--	--	--	722.1	745.1	--	--	--	--	--
G-2	Exists	Far SW Annex	--	G	Aug-1982	--	--	836.43	833.40	3.03	2.0	4.0	22.0	18.0	17.0	18.0	22.0	22.0	811.4	815.4	816.4	815.4	811.4	811.4	811.4
G-2A	Abandoned	Far SW Annex	--	G	Aug-1982	DNE	--	836.24	833.20	3.04	2.0	4.0	40.0	33.0	32.0	33.0	37.0	37.0	793.2	800.2	801.2	800.2	796.2	796.2	796.2
G-3	Exists	Far SW Annex	--	G	Aug-1982	--	--	834.94	831.90	3.04	2.0	4.0	21.0	17.0	16.0	17.0	21.0	21.0	810.9	814.9	815.9	814.9	810.9	810.9	810.9
G-3A	Exists	Far SW Annex	--	G	Aug-1982	--	--	834.74	831.70	3.04	2.0	4.0	32.0	24.0	23.0	24.0	28.0	28.0	799.7	807.7	808.7	807.7	803.7	803.7	803.7
G-4	Exists	Far SW Annex	--	G	Aug-1982	--	--	835.06	832.00	3.06	2.0	4.0	21.0	17.0	16.0	17.0	21.0	21.0	811.0	815.0	816.0	815.0	811.0	811.0	811.0
G-4A	Exists	Far SW Annex	--	G	Aug-1982	--	--	835.12	832.10	3.02	2.0	4.0	49.5	37.3	36.3	37.3	41.3	41.3	782.6	794.8	795.8	794.8	790.8	790.8	790.8
G-5	Exists	Far SW Annex	--	G	--	--	--	827.95	825.90	2.05	2.0	4.0	36.0	32.0	31.0	32.0	36.0	36.0	789.9	793.9	794.9	793.9	789.9	789.9	789.9
G-5A	Exists	Far SW Annex	--	MII/MCt	Jul-1983	--	--	828.76	825.60	3.16	4.0	Open borehole	140.0	95.2	--	--	--	--	685.6	730.4	--	--	--	--	--
G-6	Exists	Far SW Annex	--	MII/MCt	Jul-1983	--	--	829.69	827.90	1.79	4.0	Open borehole	140.0	105.9	--	--	--	--	687.9	722.0	--	--	--	--	--
G-7(S)	Exists	Far SW Annex	--	G	--	--	--	828.32	826.50	1.82	2.0	4.0	38.2	34.2	33.2	34.2	38.2	38.2	788.3	792.3	793.3	792.3	788.3	788.3	788.3
G-7(A)(I)	Exists	Far SW Annex	--	MII/MCt	--	--	--	829.18	826.50	2.68	4.0	Open borehole	120.0	74.5	--	--	--	--	706.5	752.0	--	--	--	--	--
G-8	Exists	Far SW Annex	--	G	--	--	--	83																	

**TABLE 2. MASTER SUMMARY OF WELL CONSTRUCTION DETAILS (AS OF JULY 2021)**  
 Verona Well Field Superfund Site

**TABLE 3. UPDATED GWMP FOR 2021**  
Verona Well Field Superfund Site

Page 1

Well	General Well Status as of July 2021	Approximate Well Location	General Well Depth	Hydraulic (Water Level) Monitoring	Groundwater Quality Monitoring
				Proposed 2021	Proposed 2021
<b>Annex Source Area and Immediate Up &amp; Down Gradient Areas</b>					
APZ-1	Exists	Annex Sparge PZ	Shallow		
APZ-2	Exists	Annex Sparge PZ	Shallow		
APZ-3	Exists	Annex Sparge PZ	Shallow		
APZ-4	Exists	Annex Sparge PZ	Shallow		
APZ-5	Exists	Annex Sparge PZ	Shallow		
APZ-6	Exists	Annex Sparge PZ	Shallow		
APZ-7	Exists	Annex Sparge PZ	Shallow		
APZ-8	Exists	Annex Sparge PZ	Shallow		
ARW-1S	Exists	Annex GW Ex	Shallow	X	X
ARW-2S	Exists	Annex GW Ex	Shallow	X	X
AS-1	Exists	Annex Sparge	Shallow		
AS-2	Exists	Annex Sparge	Shallow		
AS-3	Exists	Annex Sparge	Shallow		
AS-4	Exists	Annex Sparge	Shallow		
AS-5	Exists	Annex Sparge	Shallow		
AS-6	Exists	Annex Sparge	Shallow		
AS-7	Exists	Annex Sparge	Shallow		
AS-8	Exists	Annex Sparge	Shallow		
AS-9	Exists	Annex Sparge	Shallow		
AS-10	Exists	Annex Sparge	Shallow		
AS-11	Exists	Annex Sparge	Shallow	X (ADDED)	X (ADDED)
AS-12	Exists	Annex Sparge	Shallow		
AS-13	Exists	Annex Sparge	Shallow		
AS-14	Exists	Annex Sparge	Shallow		
AS-15	Exists	Annex Sparge	Shallow	X (ADDED)	X (ADDED)
AS-16	Exists	Annex Sparge	Shallow	X (ADDED)	X (ADDED)
AS-17	Exists	Annex Sparge	Shallow		
AS-18	Exists	Annex Sparge	Shallow		
AS-19	Exists	Annex Sparge	Shallow		
AS-20	Exists	Annex Sparge	Shallow		
AS-21	Exists	Annex Sparge	Shallow		
AS-22	Exists	Annex Sparge	Shallow		
AS-23	Exists	Annex Sparge	Shallow		
AS-24	Exists	Annex Sparge	Shallow		
AS-25	Exists	Annex Sparge	Shallow		
AS-26	Exists	Annex Sparge	Shallow		
AS-27	Exists	Annex Sparge	Shallow		
ASPZ-1	Exists	Annex Sparge PZ	Shallow		
ASPZ-2	Exists	Annex Sparge PZ	Shallow		
ASPZ-3	Exists	Annex Sparge PZ	Shallow		
ASPZ-4	Exists	Annex Sparge PZ	Shallow		
ASPZ-5	Exists	Annex Sparge PZ	Shallow		
ASPZ-6	Exists	Annex Sparge PZ	Shallow		
ASPZ-7	Exists	Annex Sparge PZ	Shallow		
B-1	Exists	Annex	Shallow	X (ADDED)	X (ADDED)
B-8S	Exists	Annex	Shallow	X	X
B-8I	Exists	Annex	Intermed.	X (ADDED)	X (ADDED)
B-9	Abandoned	Annex	Shallow		
B-9R	Exists	Annex	Shallow	X	X
B-23	Exists	Annex	Shallow	X	X
B-24	Exists	Annex	Shallow	X (ADDED)	
B-25	Exists	Annex	Shallow	X	X
CH-107I	Exists	Annex	Intermed.	X (ADDED)	X (ADDED)
CH-107D	Exists	Annex	Deep	X (ADDED)	X (ADDED)
GMA-1D	Exists	Annex	Intermed.	X	X
GMA-2D	Exists	Annex	Intermed.	X (ADDED)	X (ADDED)
GMP-9S	Exists	Annex	Shallow	X (ADDED)	X (ADDED)
MW-1	Exists	W/NW of Annex	Shallow	X	X
MW-2A	Exists	N of Annex	Shallow	X	X
MW-2B	Exists	N of Annex	Intermed.	X	X
MW-3	Exists	Annex	Shallow	X	X
MW-4	Exists	W of Annex	Shallow	X	X
T-5	Abandoned	N of Annex	Intermed.		
T-16	Exists	UG Annex	Intermed.	X	X
VE-01	Abandoned	Annex SVE	Shallow		
VE-02	Abandoned	Annex SVE	Shallow		
VE-03	Abandoned	Annex SVE	Shallow		
VE-04	Abandoned	Annex SVE	Shallow		
VE-05	Abandoned	Annex SVE	Shallow		
VE-06	Abandoned	Annex SVE	Shallow		
VE-07	Abandoned	Annex SVE	Shallow		
VE-08	Abandoned	Annex SVE	Shallow		

**TABLE 3. UPDATED GWMP FOR 2021**  
Verona Well Field Superfund Site

Well	General Well Status as of July 2021	Approximate Well Location	General Well Depth	Hydraulic (Water Level) Monitoring	Groundwater Quality Monitoring
				Proposed 2021	Proposed 2021
VE-09	Abandoned	Annex SVE	Shallow		
VE-10	Abandoned	Annex SVE	Shallow		
VE-11	Abandoned	Annex SVE	Shallow		
VE-12	Abandoned	Annex SVE	Shallow		
VE-13	Abandoned	Annex SVE	Shallow		
VE-14	Abandoned	Annex SVE	Shallow		
VE-15	Abandoned	Annex SVE	Shallow		
VE-16	Abandoned	Annex SVE	Shallow		
VE-17	Abandoned	Annex SVE	Shallow		
VE-18	Abandoned	Annex SVE	Shallow		
W-9S	Exists	E of Annex	Shallow		
W-11D	Abandoned	UG Annex	Deep		
<b>Area Between Annex and Southern Blocking Wells</b>					
CH-150D	Exists	DG (NW) Annex	Deep	X	
CH-150I	Exists	DG (NW) Annex	Intermed.		X
T-1	Exists	DG (NW) Annex	Shallow	X	X
W-12D	Abandoned	DG (NW) Annex	Deep		
W-4D	Exists	Southern WF	Deep		
W-4I	Exists	Southern WF	Intermed.	X	X
W-4S	Exists	Southern WF	Shallow	X (ADDED)	X (ADDED)
W-8D	Exists	DG (NW) Annex	Deep		
W-8I	Exists	DG (NW) Annex	Intermed.	X	X
W-8S	Exists	DG (NW) Annex	Shallow		X
<b>Area West/Northwest of Annex</b>					
CH-130I	Abandoned	N'hd NW of Annex	Intermed.		
CH-130S	Abandoned	N'hd NW of Annex	Shallow		
CH-131D	Abandoned	N'hd NW of Annex	Deep		
CH-131I	Abandoned	N'hd NW of Annex	Intermed.		
CH-131S	Abandoned	N'hd NW of Annex	Shallow		
E-21	Abandoned	N'hd NW of Annex	Intermed.		
E-22D	Abandoned	W of Annex	Deep		
E-22S	Abandoned	W of Annex	Deep		
T-2	Abandoned	N'hd NW of Annex	Shallow		
T-3	Abandoned	W of Annex	Shallow		
T-4	Abandoned	W-SW of Annex	Shallow		
W-5S	Exists	N'hd NW of Annex	Shallow	X (ADDED)	X (ADDED)
<b>Area Far South-Southwest of Annex</b>					
CH-129D	Abandoned	UG Annex	Deep		
CH-129I	Exists	UG Annex	Intermed.		
E-24	Abandoned	Far UG Annex	Deep		
E-25	Abandoned	Far UG Annex	Deep		
E-26	Abandoned	Far UG Annex	Deep		
E-28D	Abandoned	Far UG Annex	Deep		
E-28S	Abandoned	Far UG Annex	Shallow		
E-30	Abandoned	Far UG Annex	Deep		
T-15	Abandoned	Far UG Annex	Shallow		
<b>TSRR Source Area and Immediate Up &amp; Down Gradient Areas</b>					
B-17I	Exists	TSRR	Intermed.		
B-17S	Exists	TSRR	Shallow		
B-18I	Exists	TSRR	Intermed.		
B-18I(D)	Abandoned	TSRR	Deep		
B-18S	Exists	TSRR	Shallow		
B-19	Abandoned	TSRR	Shallow		
B-20	Abandoned	TSRR	Shallow		
B-21	Abandoned	TSRR	Shallow		
B-19R	Exists	TSRR	Shallow		
B-20R	Exists	TSRR	Shallow		
B-21R	Exists	TSRR	Shallow		
CH-101D	Exists	TSRR	Deep		
CH-101I	Exists	TSRR	Shallow		
CH-127S	Exists	W of TSRR	Intermed.		
CH-151S	Exists	NE of TSRR	Shallow		
DEQ-9A	Exists	NW of TSRR	Shallow		
DEQ-9B	Exists	NW of TSRR	Intermed.		
DEQ-10	Exists	NW of TSRR	Shallow		
DEQ-11	Exists	TSRR	Shallow		
EW-1	Abandoned	TSRR GW Ex	Shallow		
EW-2	Abandoned	TSRR GW Ex	Shallow		
EW-3	Abandoned	TSRR GW Ex	Shallow		
EW-3R	Abandoned	TSRR GW Ex	Shallow		
EW-4	Abandoned	TSRR GW Ex	Shallow		
EW-5	Abandoned	TSRR GW Ex	Shallow		
EW-6	Abandoned	TSRR GW Ex	Shallow		

**TABLE 3. UPDATED GWMP FOR 2021**  
Verona Well Field Superfund Site

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Well	General Well Status as of July 2021	Approximate Well Location	General Well Depth	Hydraulic (Water Level) Monitoring	Groundwater Quality Monitoring
				Proposed 2021	Proposed 2021
EW-7	Abandoned	TSRR GW Ex	Shallow		
EW-8	Abandoned	TSRR GW Ex	Shallow		
EW-9	Abandoned	TSRR GW Ex	Shallow		
T-6	Exists	NW of TSRR	Shallow		
T-9	Exists	UG TSRR	Intermed.		
W-10D	Exists	NW of TSRR	Deep		
W-10I	Exists	NW of TSRR	Intermed.		
W-16I	Exists	W of TSRR	Intermed.		
W-16S	Exists	W of TSRR	Shallow		
<b>Area Between TSRR and Southern Blocking Wells</b>					
CH-139I	Exists	DG (NW) TSRR	Intermed.	X	X
CH-139S	Exists	DG (NW) TSRR	Shallow	X	X
E-8	Exists	DG (NW) TSRR	Shallow	X	X
W-6D	Exists	DG (NW) TSRR	Deep	X (ADDED)	X (ADDED)
W-6I	Exists	DG (NW) TSRR	Intermed.	X	X
W-6S	Exists	DG (NW) TSRR	Shallow	X	X
<b>Area East-Northeast of TSRR</b>					
CH-133I	Abandoned	E of TSRR	Intermed.		
E-29	Abandoned	E of TSRR	Deep		
T-8	Exists	NE TSRR	Shallow		
W-7S	Exists	DG (NE) TSRR	Shallow		
<b>Paint Shop Source Area and Immediate Up &amp; Down Gradient Areas</b>					
CH-106I	Exists	Paint Shop	Intermed.	X	X
CH-140I	Exists	Paint Shop	Intermed.	X (ADDED)	X (ADDED)
CH-141I	Exists	Paint Shop	Intermed.	X	
CH-142I	Exists	Paint Shop	Intermed.	X	X
CH-143I	Abandoned	Paint Shop	Intermed.		
CH-145I	Exists	Paint Shop	Intermed.	X (ADDED)	X (ADDED)
CH-146I	Exists	Paint Shop	Intermed.		
GM-7	Exists	Paint Shop	Intermed.	X	X
PSAS-1	Exists	Paint Shop Sparge	Intermed.		
PSAS-2	Exists	Paint Shop Sparge	Intermed.		
PSRW-1	Abandoned	Paint Shop	Shallow		
PSRW-1A	Exists	Paint Shop	Shallow	X (ADDED)	
VS-1	Abandoned	Paint Shop SVE	Shallow		
VS-2	Abandoned	Paint Shop SVE	Shallow		
VS-3	Abandoned	Paint Shop SVE	Shallow		
VS-4	Abandoned	Paint Shop SVE	Shallow		
W-13	Exists	Paint Shop	Intermed.	X	
W-14	Exists	Paint Shop	Intermed.	X	
<b>Area Far Upgradient and Area Far East-Northeast of Paint Shop</b>					
CH-102I	Exists	UG (SE) Paint Shop	Intermed.	X	X
CH-103I	Abandoned	NE of Paint Shop	Intermed.		
CH-103S	Abandoned	NE of Paint Shop	Shallow		
E-12	Abandoned	E of Paint Shop	Intermed.		
E-13	Abandoned	NE of Paint Shop	Intermed.		
E-14	Abandoned	NE of Paint Shop	Intermed.		
T-7	Abandoned	UG (SE) Paint Shop	Shallow		
<b>Southern BW Line Immediate Vicinity &amp; Area Between BW Lines</b>					
BW-9	Exists	SBW	Shallow/Int	X	X
CH-105D	Exists	Southern WF	Deep		
CH-105I	Exists	Southern WF	Intermed.	X	X
CH-108I	Exists	Between BWs	Intermed.	X	
CH-109D (V32)	Exists	Between BWs	Deep		
CH-144I	Exists	E of Southern WF	Intermed.	X	
CH-144S	Exists	E of Southern WF	Shallow		
DEQ-3A	Exists	Between BWs	Intermed.	X	X
DEQ-3B	Exists	Between BWs	Deep		
DEQ-3C	Exists	Between BWs	Deep		
DEQ-3D	Exists	Between BWs	Deep		
DEQ-4A	Exists	Between BWs	Intermed.	X	X
DEQ-4B	Exists	Between BWs	Intermed.		
DEQ-4C	Exists	Between BWs	Deep		
DEQ-5A	Exists	Between BWs	Intermed.	X	
DEQ-5B	Exists	Between BWs	Deep		
DEQ-5C	Exists	Between BWs	Deep		
DEQ-5D	Exists	Between BWs	Deep		
DEQ-6	Exists	Between BWs	Deep		
DEQ-7A	Exists	Between BWs	Intermed.	X	
DEQ-7B	Exists	Between BWs	Deep		
DEQ-7C	Exists	Between BWs	Deep		
DEQ-7D	Exists	Between BWs	Deep		
DEQ-8A	Exists	Between BWs	Shallow	X	X

**TABLE 3. UPDATED GWMP FOR 2021**  
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Well	General Well Status as of July 2021	Approximate Well Location	General Well Depth	Hydraulic (Water Level) Monitoring	Groundwater Quality Monitoring
				Proposed 2021	Proposed 2021
DEQ-8B	Exists	Between BWs	Intermed.	X	X
DEQ-8C	Exists	Between BWs	Intermed.		
DEQ-8D	Exists	Between BWs	Deep		
DEQ-8E	Exists	Between BWs	Deep		
E-16	Exists	Between BWs	Intermed.	X	X
E-31	Exists	Between BWs	Shallow		
GM-1	Exists	Between BWs	Deep		
GM-2	Exists	Between BWs	Deep		
GM-8	Exists	Between BWs	Shallow	X	X
GMBW-1	Exists	SBW	Int./Deep	X	X
GMBW-2	Exists	SBW	Int./Deep	X	X
GMBW-3	Exists	SBW	Int./Deep	X	X
GMBW-4	Exists	SBW	Int./Deep	X	X
GMBW-5	Exists	SBW	Int./Deep	X	X
GMBW-6	Exists	SBW	Int./Deep	X	X
GMBW-7	Exists	SBW	Int./Deep	X	X
GMBW-8	Exists	SBW	Int./Deep	X	
GMP-1D	Exists	Between BWs	Deep		
GMP-1I	Exists	Between BWs	Intermed.	X	X
GMP-2D	Exists	Between BWs	Deep		
GMP-2I	Exists	Between BWs	Intermed.	X	X
GMP-3D	Exists	Between BWs	Deep		
GMP-3I	Exists	Between BWs	Intermed.	X	X
GMP-4D	Exists	Between BWs	Deep		
GMP-4I	Exists	Between BWs	Deep	X	
GMP-5D	Exists	Between BWs	Deep		
GMP-5I	Exists	Between BWs	Intermed.	X	X
GMP-6D	Exists	Between BWs	Deep		
GMP-6I	Exists	Between BWs	Intermed.	X	X
PZ-1	Exists	Between GMBW-6,7	Intermed.	X	
T-10	Exists	Southern WF	Shallow	X (ADDED)	X
T-11	Abandoned	E of Southern WF	Shallow		
W-1I	Exists	Between BWs	Deep	X (ADDED)	X
W-1S	Exists	Between BWs	Shallow	X (ADDED)	X
W-2I	Exists	Between BWs	Intermed.	X	
W-2S	Exists	Between BWs	Shallow	X (ADDED)	X (ADDED)
W-3S	Abandoned	Between BWs	Shallow		
<b>Northern BW Vicinity &amp; City Production Area</b>					
CH-104I	Exists	Northern WF	Intermed.	X	
CH-136I	Exists	Northern WF	Intermed.	X	
CH-137I	Exists	Northern WF	Intermed.	X	
CH-138I	Exists	Northern WF	Intermed.	X	
DEQ-1A	Exists	Northern WF	Intermed.	X	X
DEQ-1B	Exists	Northern WF	Deep		
DEQ-1C	Exists	Northern WF	Deep		
DEQ-1D	Exists	Northern WF	Deep		
DEQ-2A	Exists	Northern WF	Intermed.	X	X
DEQ-2B	Exists	Northern WF	Deep		
DEQ-2C	Exists	Northern WF	Deep		
DEQ-2D	Exists	Northern WF	Deep		
E-9	Exists	Northern WF	Intermed.		
E-10	Exists	Northern WF	Intermed.		
E-11	Abandoned	Northern WF	Shallow		
E-17	Exists	Northern WF	Intermed.		
E-19	Abandoned	Northern WF	Intermed.		
E-27	Exists	Northern WF	Intermed.	X	
E-32	Exists	Northern WF	Intermed.		
E-33D	Exists	Northern WF	Deep		
E-33S	Exists	Northern WF	Shallow		
E-34	Exists	Northern WF	Deep		
E-35D	Exists	Northern WF	Deep		
E-35S	Exists	Northern WF	Shallow		
E-36	Exists	Northern WF	Deep		
GM-3I	Exists	Northern WF	Intermed.	X	X
GM-4D	Exists	Northern WF	Deep		
GM-4I	Exists	Northern WF	Intermed.	X	X
GM-5I	Exists	Northern WF	Intermed.	X	X
GM-6I	Exists	Northern WF	Intermed.	X	X
GMP-7D	Exists	Northern WF	Deep		
GMP-7I	Exists	Northern WF	Intermed.	X	X
GMP-8D	Exists	Northern WF	Deep		
GMP-8I	Exists	Northern WF	Intermed.	X	X
PZ-5	Exists	Betwn GMP8I, GM4I	Intermed.	X	

**TABLE 3. UPDATED GWMP FOR 2021**  
Verona Well Field Superfund Site

Well	General Well Status as of July 2021	Approximate Well Location	General Well Depth	Hydraulic (Water Level) Monitoring	Groundwater Quality Monitoring
				Proposed 2021	Proposed 2021
V-18	Exists	Northern WF	Int./Deep		
V-19	Exists	Northern WF	Int./Deep		
V-20	Exists	Northern WF	Int./Deep		
V-21	Exists	Northern WF	Int./Deep	X (ADDED)	X (ADDED)
V-22	Exists	NBW	Int./Deep	X (ADDED)	X (ADDED)
V-23	Exists	Northern WF	Int./Deep	X	
V-24	Exists	NBW	Int./Deep	X	
V-25	Exists	NBW	Int./Deep	X	
V-26	Exists	NBW	Int./Deep	X	
V-27	Exists	NBW	Int./Deep	X	X
V-28	Exists	NBW	Int./Deep	X	
V-29	Exists	Northern WF	Int./Deep	X (ADDED)	
<b>Area West of Battle Creek River and Bailey Park Vicinity</b>					
CH-110S	Abandoned	NW of Bailey Park	Intermed.		
CH-111I	Exists	Bailey Park	Intermed.		
CH-111S	Exists	Bailey Park	Shallow		
CH-112I	Abandoned	Bailey Park	Intermed.		
CH-112S	Abandoned	Bailey Park	Shallow		
E-1	Abandoned	NW of Bailey Park	Intermed.		
E-2	Abandoned	N of Bailey Park	Intermed.		
E-3	Abandoned	N of Bailey Park	Intermed.		
E-6	Abandoned	W of Bailey Park	Shallow		
E-15	Abandoned	Bailey Park	Intermed.		
E-20	Abandoned	Bailey Park	Intermed.		
E-37D	Abandoned	S of Bailey Park	Deep		
E-38D	Abandoned	S of Bailey Park	Deep		
E-39D	Abandoned	S of Bailey Park	Deep		
E-40D	Abandoned	NW of Bailey Park	Deep		
USGS (H&N)	Exists	H&N on Capital Ave	Deep		
V-14	Exists	City Prod - Bailey Pk	Int./Deep		
V-15	Exists	City Prod - Bailey Pk	Int./Deep		
V-16	Exists	City Prod - Bailey Pk	Int./Deep		
V-17	Exists	City Prod - Bailey Pk	Int./Deep		
<b>Davis Oil Emmett Street Source Area</b>					
DOMW-1R	Exists	Emmett/RR	Shallow		
DOMW-2R	Exists	Emmett/RR	Shallow		
DOMW-3R	Exists	Emmett/RR	Shallow		
DOMW-4R	Exists	Emmett/RR	Shallow		
DOMW-1	Exists	Emmett/RR	Shallow		
DOMW-2	Exists	Emmett/RR	Shallow		
DOMW-3	Exists	Emmett/RR	Shallow		
DOMW-4	Exists	Emmett/RR	Shallow		
DOMW-5	Exists	Emmett/RR	Shallow		
DOMW-6	Exists	Emmett/RR	Shallow		
DOMW-7	Exists	Emmett/RR	Shallow		
DOMW-8	Exists	Emmett/RR	Shallow		
DOMW-9	Exists	Emmett/RR	Shallow		
DOMW-10	Exists	Emmett/RR	Shallow		
DOMW-10D	Exists	Emmett/RR	Intermed.		
DOMW-11	Exists	Emmett/RR	Shallow		
DOMW-12	Exists	Emmett/RR	Shallow		
DOMW-13	Exists	Emmett/RR	Shallow		
DOMW-14	Exists	Emmett/RR	Shallow		
DOMW-15	Exists	Emmett/RR	Shallow		
DOMW-16	Exists	Emmett/RR	Intermed.		
DOMW-17	Exists	Emmett/RR	Shallow		
DOMW-18	Exists	Emmett/RR	Shallow		
DOMW-19	Exists	Emmett/RR	Shallow		
DOMW-20	Exists	Emmett/RR	Shallow		
DOMW-21	Exists	Emmett/RR	Shallow		
DOMW-22	Exists	Emmett/RR	Shallow		
DOMW-23	Exists	Emmett/RR	Shallow		
DOMW-24	Exists	Emmett/RR	Shallow		
DOMW-25	Exists	Emmett/RR	Shallow		
DOMW-26	Exists	Emmett/RR	Shallow		
DOMW-27	Exists	Emmett/RR	Shallow		
DOMW-28	Exists	Emmett/RR	Shallow		
DOMW-29	Exists	Emmett/RR	Shallow		
DOMW-30	Exists	Emmett/RR	Shallow		
DOMW-31	Exists	Emmett/RR	Shallow		
DOMW-32	Exists	Emmett/RR	Shallow		
DOMW-33	Exists	Emmett/RR	Shallow		
DOMW-34	Exists	Emmett/RR	Shallow		

**TABLE 3. UPDATED GWMP FOR 2021**  
Verona Well Field Superfund Site

Well	General Well Status as of July 2021	Approximate Well Location	General Well Depth	Hydraulic (Water Level) Monitoring	Groundwater Quality Monitoring
				Proposed 2021	Proposed 2021
DOMW-35	Exists	Emmett/RR	Shallow		
DOMW-36	Exists	Emmett/RR	Shallow		
DORW-2	Exists	Emmett/RR	Shallow		
<b>City Production Wells</b>					
V-13	Exists	City Prod - VWF	Int./Deep		
V-30	Exists	City Prod - VWF	Int./Deep		
V-31	Abandoned	City Prod - VWF	Int./Deep		
V-32	Abandoned	City Prod - VWF	Int./Deep		
V-33	Abandoned	City Prod - VWF	Int./Deep		
V-34	Abandoned	City Prod - VWF	Int./Deep		
V-35	Abandoned	City Prod - VWF	Int./Deep		
V-36	Exists	City Prod - VWF	Int./Deep		
V-37	Exists	City Prod - VWF	Int./Deep		
V-38	Exists	City Prod - VWF	Int./Deep		
V-39	Exists	City Prod - VWF	Int./Deep		
V-40	Exists	City Prod - VWF	Int./Deep		
V-41	Exists	City Prod - VWF	Int./Deep		
V-42	Exists	City Prod - VWF	Int./Deep		
V-43	Exists	City Prod - VWF	Int./Deep		
V-44	Exists	City Prod - VWF	Int./Deep		
V-45	Exists	City Prod - VWF	Int./Deep		
V-46	Exists	City Prod - VWF	Int./Deep		
V-47	Exists	City Prod - VWF	Int./Deep		
V-48	Exists	City Prod - VWF	Int./Deep		
V-49	Exists	City Prod - VWF	Int./Deep		
V-50	Exists	City Prod - VWF	Int./Deep		
V-51	Exists	City Prod - VWF	Int./Deep		
V-52	Exists	City Prod - VWF	Int./Deep		
V-53	Exists	City Prod - VWF	Int./Deep		
V-54	Exists	City Prod - VWF	Int./Deep		
<b>Miscellaneous Wells Listed on Historical Tables/Maps</b>					
B-14	Abandoned	TSRR	--		
B-15	Exists	TSRR	--		
B-16	Exists	TSRR	--		
B-22	Abandoned	TSRR	--		
CH-132I	Exists	SW of TSRR	--		
DNR-01	Exists	RR Landfill	--		
DNR-02	Exists	RR Landfill	--		
DNR-03	Exists	RR Landfill	--		
DNR-04	Exists	--	--		
DNR-05	Exists	--	--		
DNR-06	Exists	--	--		
E-4	Abandoned	NW of Bailey Park	--		
E-5	Abandoned	Bailey Park	--		
E-7	Abandoned	SW of TSRR	--		
E-18	Abandoned	N of BC River/Bailey	--		
E-23	Abandoned	SW of Bailey Park	--		
EDI-1	Abandoned	--	--		
EDI-2	Abandoned	--	--		
EDI-3	Abandoned	--	--		
EDI-4	Abandoned	--	--		
G-1	Exists	Far SW Annex	--		
G-1A	Exists	Far SW Annex	--		
G-1B	Exists	Far SW Annex	--		
G-1C	Exists	Far SW Annex	--		
G-2	Exists	Far SW Annex	--		
G-2A	Abandoned	Far SW Annex	--		
G-3	Exists	Far SW Annex	--		
G-3A	Exists	Far SW Annex	--		
G-4	Exists	Far SW Annex	--		
G-4A	Exists	Far SW Annex	--		
G-5	Exists	Far SW Annex	--		
G-5A	Exists	Far SW Annex	--		
G-6	Exists	Far SW Annex	--		
G-7(S)	Exists	Far SW Annex	--		
G-7A(I)	Exists	Far SW Annex	--		
G-8	Exists	Far SW Annex	--		
G-8A	Exists	Far SW Annex	--		
G-9(S)	Exists	SW of Annex	--		
G-9A(D)	Abandoned	SW of Annex	--		
G-10(S)	Abandoned	SW of Annex	--		
G-10A(I)	Exists	SW of Annex	--		
G-10B(D)	Abandoned	SW of Annex	--		

**TABLE 3. UPDATED GWMP FOR 2021**  
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Well	General Well Status as of July 2021	Approximate Well Location	General Well Depth	Hydraulic (Water Level) Monitoring	Groundwater Quality Monitoring
				Proposed 2021	Proposed 2021
G-11(S)	Exists	SW of Annex	--		
G-11A(I)	Exists	SW of Annex	--		
G-11B(D)	Exists	SW of Annex	--		
GT-1	Abandoned	GWTRR	--		
GT-2	Abandoned	GWTRR	--		
GT-3	Abandoned	GWTRR	--		
GT-4	Abandoned	GWTRR	--		
M	Abandoned	N'hd NW of Annex	--		
OW-1	Exists	--	--		
OW-2	Exists	--	--		
OW-3	Exists	RR Landfill	--		
OW-4	Exists	RR Landfill	--		
OW-5	Exists	RR Landfill	--		
P	Abandoned	--	--		
P-113I	Abandoned	N'hd N of dam	--		
P-113S	Abandoned	N'hd N of dam	--		
P-114I	Abandoned	N'hd W of dam	--		
P-114S	Abandoned	N'hd W of dam	--		
P-115I	Abandoned	S of dam	--		
P-115S	Abandoned	S of dam	--		
P-116I	Abandoned	N'hd SW of dam	--		
P-117I	Abandoned	Far SW of dam	--		
P-119S	Abandoned	NE of Bailey Park	--		
P-124I	Abandoned	Far NE of Paint Shop	--		
P-125I	Abandoned	Far NE of Paint Shop	--		
PC-1A	Exists	PS SVE PZ	--		
PC-1B	Exists	PS SVE PZ	--		
PC-2A	Exists	PS SVE PZ	--		
PC-2B	Exists	PS SVE PZ	--		
PC-3A	Exists	PS SVE PZ	--		
PC-3B	Exists	PS SVE PZ	--		
PZ-1A	Exists	Annex SVE PZ	--		
PZ-1B	Exists	Annex SVE PZ	--		
PZ-2A	Exists	Annex SVE PZ	--		
PZ-2B	Exists	Annex SVE PZ	--		
PZ-3A	Exists	Annex SVE PZ	--		
PZ-3B	Exists	Annex SVE PZ	--		
PZ-4A	Exists	Annex SVE PZ	--		
PZ-4B	Exists	Annex SVE PZ	--		
PZ-5A	Exists	Annex SVE PZ	--		
PZ-5B	Exists	Annex SVE PZ	--		
PZ-6A	Exists	Annex SVE PZ	--		
PZ-6B	Exists	Annex SVE PZ	--		
PZ-7A	Exists	Annex SVE PZ	--		
PZ-7B	Exists	Annex SVE PZ	--		
R	Abandoned	--	--		
S-1	Abandoned	Far NE of Paint Shop	--		
SG-1	Abandoned	Staff gauge SW of dam	--		
SG-3	Abandoned	Staff gauge N of dam	--		
SG-4	Abandoned	Staff gauge NE of WF	--		
SG-5	Abandoned	Staff gauge NE of WF	--		
T-12	Abandoned	Far SW Annex	--		
T-13	Abandoned	Far SW Annex	--		
T-14	Abandoned	Far SW Annex	--		
V-1	Abandoned	City Prod - VWF	--		
V-2	Abandoned	City Prod - VWF	--		
V-3	Abandoned	City Prod - VWF	--		
V-4	Abandoned	City Prod - VWF	--		
V-5	Abandoned	City Prod - VWF	--		
V-6	Abandoned	City Prod - VWF	--		
V-7	Abandoned	City Prod - VWF	--		
V-8	Abandoned	City Prod - VWF	--		
<b>City Production System Influent Plant Tap</b>				X	
Inf Tap	Exists	VWF	Tap		
		Total Location Count		100	77

Excludes any sampling to be performed by EGLE/others.